

From ab4el.com Fri May 6 13:15:49 1994
From: william.redfearn.cmwdr01@nt.com
Subject: 2 Meter all mode -SOLD!

>For Sale:
>Icom IC-260 2 Meter All mode mobile
>\$ 225.00 OBO

The IC-260 sold before the ink was dry on the posting!
Thanks for the response.

=====
Dave Redfearn, SR PC LAN Analyst Northern Telecom RTP, NC.
ph.(919) 992-3925 email: cmwdr01@nt.com qrl? de N4ELM/qrp

All opinions are my own and do not necessarily reflect the views of
my employer, co-workers or any other person, real or imaginary.

From ab4el.com Fri May 6 12:13:11 1994
From: william.redfearn.cmwdr01@nt.com
Subject: 2 Meter all mode for sale

For Sale:
Icom IC-260 2 Meter All mode mobile
144 - 148 Mhz, FM,SSB,CW 10 Watts - adjustable
with: mike, power cord, manual, and bracket
good condition, used mainly for RS-10 satellite
\$ 225.00 OBO

This has been a good "single box" solution for getting into
RS-10 running low power or QRP while using simple antennas.
The CW signal quality is considerably better than trying to
key the mike line on an FM HT. Would also be great for that
Field Day Satellite contact.

=====
Dave Redfearn, SR PC LAN Analyst Northern Telecom RTP, NC.
ph.(919) 992-3925 email: cmwdr01@nt.com qrl? de N4ELM/qrp

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my employer, co-workers or any other person, real or imaginary.

From ab4el.com Fri Apr 29 17:31:27 1994
From: draperbl@mdlchtm.eece.unm.edu (Bruce L. Draper)

Subject: 20/40 backpacking rigs

I'm new to the reflector, so please forgive me if this is a common request. I do a lot of backpacking in the Rockies and would like to have an HF radio to take along. Off the top of my head, I think these are the features I'm most interested in:

- 20 *AND* 40 meters (dual band)
- 3-6 watt range
- small/lightweight, maybe 6x6x3
- built-in keyer, or at least the room for one
- CW, of course, but it might be nice to rcv phone also

Other than that I'm not too picky. I have an old, almost-working TenTec PM3 that even has manual T/R switching, manual-tune output stages and preselector, direct-conversion rcvr with microphonics, etc, and it would probably be OK for what I have in mind except that it is HUGE.

Any suggestions? New/used/kits/ready-built all OK.

Thanks,

Bruce AA5B New Mexico

DRAPERBL@MDLCHTM.EECE.UNM.EDU

From ab4el.com Mon May 2 12:35:51 1994
From: James Speer <F_SPEERJR@CCSVAX.SFASU.EDU>
Subject: 7.020 xtl

N00CT writes:

>I've found that local electronics shops, Digikey, Newark etc. sell little HC
>49 crystals with a freq around 7.020 that are dirt cheap. Can;t be bent as
>much (maybe) as an HC 6 type, but make a good extra crystal because of the
>price!

Only useful to folk with Extra Class tickets, though!

Jim
K5YUT

From ab4el.com Mon May 2 08:48:53 1994

From: Edward Parish <parish@Think.COM>
Subject: Adding QRP contests to CT (fwd)

From: Alan Kaul <kaul@netcom.com>
Date: Wed, 27 Apr 1994 14:51:35 -0700 (PDT)

The answer is back from the author of CT about including QRP contests/parties in an update to CT version 8 ... (see attached). However, someone else told me that CT version 9 will be ''programmable''

Ken originally was going to have a configurable mode in CT9. I talked with him at Dayton and he gave up on it. It is not in CT9.

by the user to customize contest exchanges. Someone else told me N6TR Log can be changed to config for QRP contests (although I have not been able to make version 4.05 reconfigured for RST + State + ARCI # -- at least not yet). And someone else said there's a program called ''Logger'' which is designed for QRP contesting (which I have not tried) and still another program for Windows which will log for the QRP contests.
72 de w6rc1

[<Alan Kaul>] kaul@netcom.com

From ab4el.com Wed Apr 27 17:50:45 1994
From: Alan Kaul <kaul@netcom.com>
Subject: Re: Adding QRP contests to CT (fwd)

The answer is back from the author of CT about including QRP contests/parties in an update to CT version 8 ... (see attached). However, someone else told me that CT version 9 will be ''programmable'' by the user to customize contest exchanges. Someone else told me N6TR Log can be changed to config for QRP contests (although I have not been able to make version 4.05 reconfigured for RST + State + ARCI # -- at least not yet). And someone else said there's a program called ''Logger'' which is designed for QRP contesting (which I have not tried) and still another program for Windows which will log for the QRP contests.
72 de w6rc1

[<Alan Kaul>] kaul@netcom.com

----- Forwarded message -----
Date: Mon, 25 Apr 1994 10:08:58 EDT
From: Ken Wolff <k1ea!k1ea@transfer.stratus.com>
To: Alan Kaul <kaul@netcom.com>
Subject: Re: Adding QRP contests to CT

On Thu, 21 Apr 1994 22:24:30 -0700 (PDT), "Alan Kaul" <kaul@netcom.com> wrote:

> I'm a registered user of versions 6, 7, and 8. And am wondering if
> there's much chance that the QRP ARCI contests might get added to list of
> contests CT serves? The exchanges are complicated enough (for example in
> the Spring CW QSO party - signal report, state, QRP-ARCI# or power ---
> i.e. 599 CA 6872) that they cannot be adapted easily to any other
> CT format (either contest or the DXpedition)---i.e. only option seems to
> be paper logs. We are not a very big group, but a lot of us are already
> using CT anyway in the CQWW, ARRL, 10/160/Field-day, All-asian,etc., and
> have been for some time. Is there a chance?
>
> Tnx, de W6RCL
>
>
> [Alan Kaul] kaul@netcom.com
>
>

Sorry, but there really is not much chance. Things in my "other" life are getting really, really busy.

73 - Ken

--

Ken Wolff K1EA

From ab4el.com Wed May 4 20:07:03 1994

From: Alan Kaul <kaul@netcom.com>

Subject: ALC Adjustments to enable QRP

An April 1990 issue of QRP Quarterly -- in WA8MCQ's Idea Exchange -- refers to a July '89 QQ issue which discusses using a small battery, a switch, and a pot connected across the battery to ground which then connects thru the wiper to the ALC input stage of transceivers. The circuit -- introducing artificial ALC voltage to the rig -- enables very fine adjustments in the ALC feedback voltage to enable QRO transceivers to reduce power down to QRP levels. Anyone out there know if it'll work with an ICOM IC-725? And whether the voltage required is positive or negative?

Thanks, 72 de alan

[Alan Kaul, W6RCL] kaul@netcom.com

From ab4el.com Thu May 5 07:37:25 1994

From: C=BAILEY%IS%211EIS@ANG193FS.ang.af.mil

Subject: ALC Adjustments to enable QRP

Forwarded to: DDN[qrp@Think.com]
cc:
Comments by: C BAILEY@IS@211EIS
Comments:

I own an Icom IC-726 same version of the 725 except it has 6 meters. There is a low power adjustment pot inside the rig. I have set mine at 5 watts. The factory puts this at about 7 to 10 watts. You may use the circuit you read about, which uses the ALC circuit. I have researched this, but I do not recall if the voltage required is + or -. If you have more questions, please reply. I will check my service manual info.
72 de Cameron, KT3A.

----- [Original Message] -----

Received: by PAMDT.ANG.AF.MIL; Wed, 4 May 94 21:23:54 EDT
Received: by mail.think.com; Wed, 4 May 94 20:07:03 -0400
Received: from Think.COM by mail.think.com; Wed, 4 May 94 20:06:43 -0400
Received: from netcom.com (netcom8.netcom.com) by Early-Bird.Think.COM; Wed, 4 May 94 20:06:37 EDT
Received: by netcom.com (8.6.8.1/SMI-4.1/Netcom)
id RAA29923; Wed, 4 May 1994 17:07:55 -0700
Date: Wed, 4 May 1994 17:07:54 -0700 (PDT)
From: Alan Kaul <kaul@netcom.com>
Subject: ALC Adjustments to enable QRP
To: QRP@Think.COM
Message-Id: <Pine.3.89.9405041632.A27942-01000000@netcom8>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
Sender: qrp-admin@Think.COM
Precedence: bulk

An April 1990 issue of QRP Quarterly -- in WA8MCQ's Idea Exchange -- refers to a July '89 QQ issue which discusses using a small battery, a switch, and a pot connected across the battery to ground which then connects thru the wiper to the ALC input stage of transceivers. The circuit -- introducing artificial ALC voltage to the rig -- enables very fine adjustments in the ALC feedback voltage to enable QRO transceivers to reduce power down to QRP levels. Anyone out there know if it'll work with an ICOM IC-725? And whether the voltage required is positive or negative?
Thanks, 72 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

From ab4el.com Thu May 5 09:40:03 1994

From: jkearman@arrl.org (Jim Kearman)
Subject: Re: ALC Adjustments to enable QRP

Alan Kaul asks about varying ALC voltage to adjust power output on an ICOM IC-725 transceiver. I came up with a similar circuit for use in our "QRP Companion" book. The ALC voltage should be negative. My circuit used a 9-V battery, but I suspect 2 or 3 AAs would work in most cases. It's a good way to tweak a rig you don't want to open up, like one you're borrowing for FD or something.

72

Jim, KR1S

From ab4el.com Thu May 5 16:29:07 1994
From: James Lyons <jlyons@CAM.ORG>
Subject: Re: ALC Adjustments to enable QRP

On Wed, 4 May 1994, Alan Kaul wrote:

> An April 1990 issue of QRP Quarterly -- in WA8MCQ's Idea Exchange --
> refers to a July '89 QQ issue which discusses using a small
> battery, a switch, and a pot connected across the battery to ground which
> then connects thru the wiper to the ALC input stage of transceivers.
> The circuit -- introducing artificial ALC voltage to the rig -- enables
> very fine adjustments in the ALC feedback voltage to enable QRO
> transceivers to reduce power down to QRP levels. Anyone out there know if
> it'll work with an ICOM IC-725? And whether the voltage required is
> positive or negative?
> Thanks, 72 de alan
> [<Alan Kaul, W6RCL>] kaul@netcom.com
>

I don't know about the 725 but it certainly works on my 751A. The voltage has to be negative and is quite critical and works over a small range of voltages. Icom published a circuit in their feature in QST a year or two back, sorry I don't remember the issue, so it is "official".

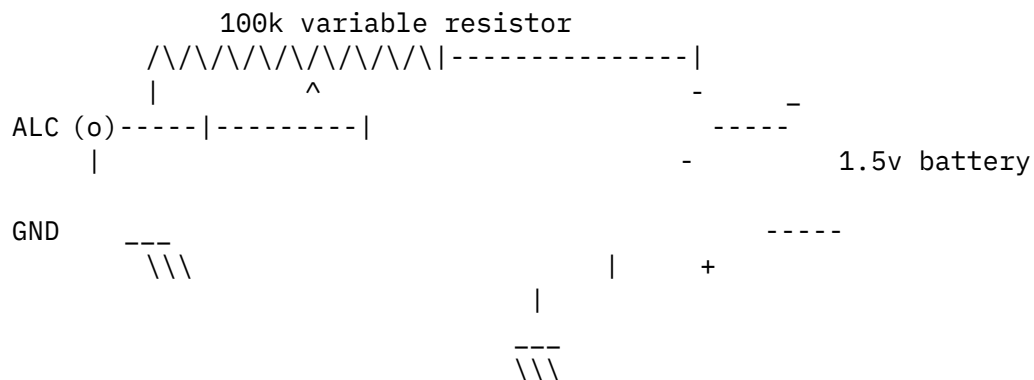
72,

Jim, VE2KN

From ab4e1.com Fri May 6 10:49:27 1994
From: Alan Kaul <kaul@netcom.com>
Subject: Re: ALC Adjustments to enable QRP

Tnx your note Jim.
And tnx to all others who provided information.

ICOM published the circuit in an ad in QST (Tech Talk# 84, QST, Dec. 1992, Page 184) and claimed it will work for all Icom transceivers (although I think some of the old tube types might require positive instead of negative ALC voltage). The circuit is as follows:



Icom claims:

- 1.25v = 5w output
- 1.30v = 300 milliwatts
- 1.33v = 100 milliwatts

73, 72 de alan

[<Alan Kaul, W6RCL>] kaul@netcom.com

From ab4e1.com Mon Apr 25 09:21:06 1994
From: Andrew Comas <comas@dwcu03.enet.dec.com>

Subject: ARCI Contest Log Address?

I forgot to save the ARCI QRP Contest mailing address.
Can someone tell me either a internet or USPS address
to send my logs into.

Thanks
Andrew KF2JH
coma@nyo.dec.com

From ab4el.com Tue Apr 26 13:12:15 1994
From: mcronenw@pyramid.com (Mark Cronenwett)
Subject: ARCI Contest Logger

A little while ago, I saw a post asking about a logging program
for the ARCI contests. I did not see an answer come by, pardon
me if one did. Today I saw a post on packet about a logging program
for the ARCI contests. Looks like good information, so it is
posted again here. I apologize if this is a repeat...:))

Mark

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=====
Date: 26 Apr 94 04:32
Message #: 16281
  BID: <38897_WB2WXQ>
  From: WB2QAP@WB2WXQ
  To: QRP@ALLUS
Subject: New QRP "Logger" Program
```

WB0TAX!KA6EYH!WX3K!KC7Y!N2BQF!WA2AWG!KA2MSL!N2LSS!WB2WXQ ...

A few years ago, I wrote a program called "Logger", which
was a logging, dupe checking program for QRP ARCI members
to use in the contests. It also printed out contest
results in ARCI format, ready to mail in. The program was
originally described in an article in the April, 1991
issue of the Quarterly (official magazine of the QRP ARCI
club), and was reviewed by Jack Coster, WF8X in the April,
1993 issue of the Quarterly. It was favorably received
and has been used by a number of QRPers in recent years.

I recently completed a major revision of "Logger". I have

also included versions of "Logger" for the Michigan QRP Club contests and the NW QRP Club contests. Some of the new features of "Logger" are:

- 1) On screen running clock
- 2) Points and multiplier scores show at all times on bottom of screen.
- 3) Instructions are built in the program
- 4) Graphic screen shows visually what multipliers you have worked on each band. (North American multipliers only)
- 5) Program now is stand alone .EXE file and runs faster.
- 6) Printouts are in ARCI format. (After a contest it takes about 3 minutes to print out and have ready to mail results).

Also included on the disk, are versions of Logger for the Michigan and NW Club contests, with the appropriate changes in scoring for each club. A GW-BASIC version of each program is also included for those hackers who want to get in and make further changes and/or improvements.

If you work the QRP contests, or would like to participate in these contests, and would like to receive these programs, then you need to do the following:

Send a formatted 3.5" (preferred) or 5.25" disk WITHOUT LABEL and two dollars (that's right \$2.00) to

Bruce Milne, WB2QAP, 2350 Clark Road, Penn Yan, NY 14527

A mailing label with your address on it would be nice.

Actually, the program is FREE, the two dollars covers postage, disk mailer, etc.

For more information, check the April 1991 and April 1993 issues of the Quarterly. I have submitted an article describing the improvements in Logger to the Quarterly, but have no idea when it will be published.

By the way, if you can reach New York State by packet radio, I have a pbbs that is devoted strictly to QRP subjects. Located in upstate NY, connect to QRPBBS VIA CANDGA.

73 es 72 de Bruce, WB2QAP

--

-m----- Mark Cronenwett Wk: (408)428-7543
--mm----- Customer Services Fax: (408)428-7450
-----mmmmmm--- Pyramid Technology Corporation
-----mmmmmmmm-- San Jose, California
-----mmmmmmmm- mcronenw@pyramid.com KA7ULD(@N0ARY.#NOCAL.CA.USA.NA)

From ab4el.com Wed May 4 09:21:00 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Bad News - Good News

Bad News - K5FO Newsletter delayed a few days.
Reason: reformatting. I had it ready, took it to Dayton, showed it to Doug Hendricks, and was ready to print on Monday and mail on Tuesday. Then I was taken a shot at by the President of the NW Club. I'm in process of getting this straightened out with my response that I will relay to him tomorrow and then get his response and then we will continue on with our lives.

Good News - K5FO Newsletter will go out FIRST CLASS mail on Saturday. More good news, I think, the K5FO Newsletter will be 20 pages long (down from the original 60 pages) and will come out MONTHLY. It will be mailed first class the first week of the month and the subscription price will remain at \$5 per year until Uncle Sam decides to again raise the price of a first class stamp. This may be the first newsletter to be in a monthly format. I hope that I'm not being stupid to do this, and I might, but most of the information that we need is time critical. For those with access to the internet, it's not a problem, for others it is.

My apologies for the delay. I tried, but there are some things in life one must do to protect one's reputation and misinformation being propagated in this information age. I think that I've aired enough to this group to convey the fact that I am optimistic (sp?) about QRP and QRPers and really love the hobby. And that is exactly what it is, a hobby. To enjoy and grow and share is the name of the game.

Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Wed May 4 20:35:38 1994

From: ATXR@CENVMC.CENCOL.ON.CA
Subject: butane soldering tool?

From: Ted Rosen, Architectural Technology Department
Has anyone used the portable butane soldering tool as illustrated in RadioShack catalogues, for soldering pc boards? Is it recommended, or are there any comments?

From ab4el.com Wed May 4 21:25:40 1994
Subject: Re: butane soldering tool?
From: "John F. Woods" <jfw@ksr.com>

> Has anyone used the portable butane soldering tool as illustrated in
> RadioShack catalogues, for soldering pc boards? Is it recommended,
> or are there any comments?

Yes. It works, though you have to turn it all the way down. It's probably an expensive way to solder PC boards, unless you're without AC power.

I also tried soldering antenna wires with it; it doesn't really get hot enough. I then got the Solder-It Kit, which is the much-bigger brother of the Radio Shack soldering tool (which seems to be identical to several other brands of butane soldering tool). The Solder-It torch made short work of the antenna job (#16 copperweld wires, fairly stiff breeze).

From ab4el.com Wed May 4 22:05:57 1994
From: stark <mswmod@sage.unr.edu>
Subject: Re: butane soldering tool?

On 4 May 1994 ATXR@CENVMC.CENCOL.ON.CA wrote:

> From: Ted Rosen, Architectural Technology Department
> Has anyone used the portable butane soldering tool as illustrated in
> RadioShack catalogues, for soldering pc boards? Is it recommended,
> or are there any comments?
>

Haven't used the RadioShack version but had a "PortaSol" (?) blow up in my hand last summer.

Was on a mountain top working on our paging station when it happened. I think the fill valve must have started leaking and then it just started burning!

Being of sound mind like all good QRPers, I threw it to my partner who was standing closer to the door. He, being the fast learner that

he is, sent it on it's way outside.

The good news is that no one was hurt. Just a few high speed heart beats!

Oh yea, now I use a battery powered tool. A name something like IsoSol.

73's and have fun.

.....KU7Y.....
.....Monte "Ron" Stark.....
.....Sun Valley, Nevada.....

From ab4el.com Sun Apr 24 19:42:04 1994
From: hideg@qmserv.erim.org (Steve Hideg)
Subject: Butternut HF-6V

Subject Butternut HF-6V

Hello.

I'm in the market for an HF vertical, primarily to work 40, 20, 15, and perhaps 10m. I've been considering the Cushcraft R7. Recently, a friend has put up a Butternut HF-6V for sale at a great price (\$50). Does anyone have experience with the Butternut?

I will be putting this antenna on a roof tripod, 20-30 feet off the ground.

Does the HF-6V need radials (unlike the R7)? What is the difference between The HF-6V and the newer HF-6VX?

Any help would be appreciated. I need to make a decision quickly. I may buy an antenna at Dayton.

Thanks.

--Steve Hideg, N8HSC
hideg@erim.org

From ab4el.com Mon Apr 25 22:21:21 1994
From: wwm@wa8tzg.mi.org (Bill Meahan)
Subject: Re: Butternut HF-6V

I had one. Worked a goodly amount of stations (DX and domestic) with it, mostly at low power or QRP. It came down when I had to put a new roof on the house. The roofers weren't too careful with it and it was in too bad shape to put back up. 'Course by then it was over 10 years old and in bad shape anyway so I didn't cry too many tears.

If the one your friend has is in good shape, go ahead and get it - it's a good skyhook.

73

--

Bill Meahan WA8TZG
wmeahan@wa8tzg.mi.org
Hey, this is my OWN computer! I can say what I want!
cat: a purr bearing mammal

From ab4el.com Thu May 5 13:33:10 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: change continue to consume

dit dit :-) typing 101
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Wed May 4 09:45:41 1994
From: jjw@seastar.org (John Welch)
Subject: Crystals ordered for 9MHz filter

I ordered 40 9MHz crystals Monday - they should arrive tomorrow. Will start matching them that night.

Since these are all from the same supplier, there is a good chance that my design will work pretty well straight out of the box, without measuring it. If most of the xtals come out the same, it sure would be nice.

Should I do a SSB or CW filter? If CW, what bandwidth(s) would be most useful? 400? 800? 1200? (getting near RTTY here...)

What impedance should I make the filters? 50 ohm is what I usually use, but that's a lousy match to a 1350 IF amp.

--

John Welch, N9JZW

From ab4el.com Tue May 3 12:49:24 1994
From: "Kevin Anderson" <GGANDERSON@Augustana.edu>
Subject: cw sideband -- rcvr or xmtr determines?

Who/what determines the frequency -- the receiver or the transmitter? Seems like a simple enough question at the surface, but in fact one I suspect is confusing many by the posts on this subject.

Let me suggest that it is the transmitter that is/should set the frequency, as was the example of the 7.040 xtal. (But how do you know this unless you are using a xtal.)

Others, users of the fixed offset transceivers for instance, might suggest that it is the receiver that sets the frequency. That seemed to be suggested by some of the replies.

Say you want me to meet you on 7.040. With my xtal HW-16 that is fine as long as I have a 7.040 crystal. I just tune up, listen around with the receiver, then fire off the CQ (assuming the band is free). Common practice when we were all rock-bound was to tune around as split conversations were common. But with the Icom 751A (another person's example, and a xcvr I've used twice), what do I tune to? If I set the dial to read 7.040.00, what was I on? 7.040 or 600/700 off from that? I always wondered as when I pushed the mode switch between CW and SSB, I saw the dial also shift. Obviously the offset coming in to the play. So where am I? I didn't worry at the time because I matched tones when I tuned and kept RIT always centered.

I am not surprised that people are confused on this. My (\$.02, although phone charge for this long of a message is likely more than that collectively :-).

72 de Kevin, KB9IUA

Kevin L. Anderson, Geography Dept., Augustana College
Rock Island, Illinois 61201 USA phone: (309) 794-7325
e-mail: gganderson@augustana.edu or kla@helios.augustana.edu

From ab4el.com Tue May 3 09:32:34 1994
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: cw sidebands

I Guess that I'm not sure what the big deal is over the which sideband you guys want to use.
let's think about this for a minute...

I've heard comments maybe he was listening on the wrong sideband.. and D.C. receivers and wrong sideband..

Well, I think that either I'm really confused, or there seems to be a general misunderstanding about what we are doing with cw here.

First of all to make it clear, we are on ONE frequency when we send cw. One frequency, not the upper sideband or the lower.. just one frequency.

-----|----- On the Spectrum Analyzer, it looks kinda like this..
7.040 exactly for instance.

Second with D.C. receivers, you can listen on whichever side of zero beat (that one frequency, 7.040) you want. So you will hear the nice 700 Hz tone when your d.c. receiver oscillator is set at 7.0407 or 7.0393 mHz.

Remember the transmitted signal still looks like the above! You hear a tone only when your receiver oscillator signal is +- 700 Hz from the cw signal.

The reason this is, is that when you multiply (mix) two sinusoidal sources, $\sin(a)*\sin(b) = 1/2*\cos(a-b) - 1/2*\cos(a+b)$, a and b being the incoming freq and the osc freq respectively. That way if you like 700 Hz for your audio tone, you can either receive +700 Hz or -700 Hz. I don't think your ear can perceive the difference in the phase in mono reception. What Single frequency D.C. receivers do over the conventional D.C. receivers is eliminate the redundant signal, and basically remove the redundant signals from the band. (single freq d.c. receiver of kk7b fame)

On Superhet designs, which sideband you pick is also a matter of choice. If you decide on an 8 Mhz I.F. you could chose 8Mhz+ or - 700Hz to mix down to audio, and you would get perfectly good audio either way, from the same frequency of transmission. As long as the passband of the I.F. filter is

symmetrical, I see no difference in choosing one over the other, except it's probably easier to drag an xtal oscillator down in freq rather than up. On Superhet designs, we only hear one of the sidebands, because we are not continuously tuning the mixer that mixes to audio frequency, thus, we have selected one sideband or the other when we build our rigs.

So these are my comments.

73 all Brad WB8YGG

From ab4el.com Tue May 3 10:35:04 1994
Subject: Re: cw sidebands
From: "John F. Woods" <jfw@ksr.com>

> I Guess that I'm not sure what the big deal is over the which sideband
> you guys want to use.
> let's think about this for a minute...
> First of all to make it clear, we are on ONE frequency when we send cw.
> One frequency, not the upper sideband or the lower.. just one frequency.

Well, actually, no.

If you send an actual continuous wave (no keying), starting at the dawn of time, then you will, in fact be sending a pure frequency. But you cannot modulate a carrier *in any fashion whatsoever* without generating sidebands. The sidebands generated by a CW transmitter look suspiciously like very thin AM sidebands, and if you think about it, that's exactly what CW modulation is.

But that's not actually what's being discussed.

> Second with D.C. receivers, you can listen on whichever side of zero beat
> (that one frequency, 7.040) you want.

Bingo. But if you listen on the wrong side of zero beat with a DC transceiver, that expensive commercial transceiver you're talking to will have your carrier outside of *its* sideband filter, because it looks to him like you're sending on "the wrong sideband" (think of sending MCW using an SSB rig). Two DC rigs talking to each other don't care about sidebands (exotic single-signal schemes excepted, of course).

73, John, WB7EEL/1

From ab4el.com Tue May 3 11:07:45 1994
From: mont@netcom.com (Mont Pierce)
Subject: Re: cw sidebands

> I Guess that I'm not sure what the big deal is over the which sideband

> you guys want to use.
> let's think about this for a minute...
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> I've heard comments maybe he was listening on the wrong sideband..
> and D.C. receivers and wrong sideband..
>
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> One frequency, not the upper sideband or the lower.. just one frequency.
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> Second with D.C. receivers, you can listen on whichever side of zero beat
> (that one frequency, 7.040) you
> want. So you will hear the nice 700 Hz tone when your d.c. receiver oscillator
> is set at 7.0407 or 7.0393 mHz.
>
> Remember the transmitted signal still looks like the above! You hear a tone
> only when your receiver oscillator signal is +- 700 Hz from the cw signal.

I think you're missing the point. There is a problem if you are listening to the wrong sideband if the wrong sideband is described as follows:

As you tune, the tone of the receiving station rises while the tone of your key sidetone oscillator falls, or vice versa. I.e. your listening some 1.4 khz off the frequency your transmittes is tuned to.

You're right about single image superhet reception though, if you're using a transceiver where both the receiver and the transmitter are using the same offset direction from the beat frequency. But if you're using separate transmitter and receiver, you still have the same problem. You need to make sure that you're using the same offset on both rigs.

The easiest thing to do is to just tune your receiver slightly and make sure that the tone of the station you're receiving is changing in the same direction as your transmitter's signal.

73,

--

Mont Pierce

```
+-----+
| Ham Call: KM6WT           Internet:  mont@netcom.com |
|   bands: 80/40/20/15/10/2 |
|   modes: cw,ssb,fm       |
+-----+
```

From ab4el.com Tue May 3 11:23:11 1994
From: mont@netcom.com (Mont Pierce)
Subject: Re: cw sidebands

> time, then you will, in fact be sending a pure frequency. But you cannot
> modulate a carrier *in any fashion whatsoever* without generating sidebands.
> The sidebands generated by a CW transmitter look suspiciously like very thin
> AM sidebands, and if you think about it, that's exactly what CW modulation is.

That may be true, but only because you cannot perfectly turn on and off
the carrier. Still the ideal desired signal IS a single frequency.

> that expensive commercial transceiver you're talking to will have your carrier
> outside of *its* sideband filter, because it looks to him like you're sending
> on "the wrong sideband" (think of sending MCW using an SSB rig). Two DC

Not. Go ahead and set your rig to USB and tune in a CW signal. Now set
your rig to LSB and retun in the same CW signal. There is no way in the
world you can tell the difference, except if your getting interference from
another station on either side.

> on "the wrong sideband" (think of sending MCW using an SSB rig). Two DC

My previous comment is also true for MCW on an SSB rig. It sounds
identical to a true cw transmitter (well signal may not be quite as pure).
On a DC receiver you will hear a tone on both sides of the beat signal, on
an SSB receiver you will hear a perfect signal on whichever side your cw
mode uses. You absolutely cannot tell the difference.

73,
km6wt

--
Mont Pierce

```
+-----+  
| Ham Call: KM6WT           Internet:  mont@netcom.com      |  
|   bands: 80/40/20/15/10/2                                     |  
|   modes: cw,ssb,fm                                           |  
+-----+
```

From ab4el.com Tue May 3 11:24:36 1994
From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: Re: cw sidebands

Brad: I think the problem here is that some xcvs (not seperate xmtr-rcvr)
design the rcvr so that it is perminently offset from the xmtr freq -
my old HW-8 used to be that way (no RIT). So the rcvr is set to one

> Not. Go ahead and set your rig to USB and tune in a CW signal. Now set
> your rig to LSB and retune in the same CW signal.

Right, but the point others were making is that the "retune in the same CW signal" is necessary; if the other operator doesn't think to do it, he doesn't hear you. As you pointed out in other mail, a DC transceiver makes it easy to transmit at a frequency twice the sidetone offset away from the other operator's transmitted frequency.

From ab4el.com Tue May 3 14:50:41 1994
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: Re: cw sidebands

> People who design xcvrs w/o RIT ought to be shot. The confusion that has
> resulted throughout history because of the lack of this aid would have
> been enough to destroy any country. Rumor has it that the L.A. riots
> 2 years ago might have been triggered due to lack of RIT in many of
> the kits on the market then. ;)
>
> Jeff NH6IL
>

Now Now Jeff... That might be a little extreme.. Dave Benson's nn1g works great.. :-)) I have built 2 of them now..
lets run through a scenario with me on the lower end and you on the upper..
ok
we have a sched on 7.040
I listen on 7.040 -700 Hz you transmit on 7.040 , I hear you..
I transmit on 7.040 , you hear me on 7.040 + 700hz..

No problem right? Right.
The point I was trying to make is that the transmitted freq is the transmitted freq.

Ok, here's something that is proof that not everybody understands this too well. You guys know about the spider design right? January , 1973 73 mag... Well, really nice xtal transceiver, I made 3 of them.. Well, in the article, the author said something like be careful of the bottom of the band because if you have an xtal freq near the bottom, you are actually 700 Hz below that in transmit freq.. I read that over and over and over again, and finally realized he's was just plain incorrect. Now if we had the proverbial cw signal that started infinty ago, it would be exactly at 7.040 the transmitted signal freq. Your oscillator might have to be set 700 hz below the transmitted freq to hear it, but you still are on 7040! Boy oh boy, this is really a lot of b.s. for those that just got back from Dayton. Maybe we better lighten up till their eyes get back in focus.

73 Brad
WB8YGG

From ab4el.com Mon May 2 22:33:53 1994
From: rmarlan@cortex.uchc.edu (Robert Marlan)
Subject: Dayon, Chuck Adams Rumors, & QRP Fun

Well here I am back in Connecticut, less than 24 hours after "decompressing" from the Dayton Extravaganza. Well the weather sucked, but that is not all bad - it always helps out the prices in the flea market! I got my 50HZ HP freq. counter for \$30 - in anticipation of building the sierra. I used it tonite to calculate the precise freq. of my norcal. I have the low end set @ 7026 so I should be legal!

Well despite rumors to the contrary, Chuck Adams was sighted on several occasions off the air without a key in his hand. He told me all those ideas of him being an operating fiend (?sp) are not all true!! Anyways I stayed @ Dayton South and had a great time. Saturday nite everyone got together, and showed off their latest creation. W8MVN builds some beautiful stuff. I realized that as someone had stated here before, what makes qrp and ham radio great are the people. For example Saturday nite - people of all ages, backgrounds, and interests, sharing and helping each other. Many have helped me with various projects and I hope to return the favors. It also was really fun to meet all the people that have contributed over the internet to this group.

Well at least nice people and events like these give us all a break from lying politicians, gang / drug violence, and all the other nasty stuff that appears on our front pages on a daily basis.

Thanks all for making it a great time - see you in a year.

Take my house, my car my wife, -- but NO not my norcal !!
73's Bob Marlan KA6NOC/1

From ab4el.com Tue Apr 26 14:46:29 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)

Subject: Dayton

I was going to drive to Dayton, but my schedule got changed.
Now I'm flying into Cincinnati on Friday morning at 9:36am.
Will have a rent-a-car and drive to Dayton. See you there.

I'll be the tall ugly guy running around looking lost. :-)

dit dit

Chuck "dit dit" Adams, K5FO/8
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4e1.com Wed Apr 27 08:27:33 1994
From: mvjfm@mvubr.att.com (James M Fitton +1 508 960 2577)
Subject: Dayton

After hearing nothing from the ARCI brass,
I sent a tentative list of events for Dayton to the gang.

I just found out that the new President is planning a
dinner for Sat. night. This may pre-empt the beer
and pizza party..... Stay tuned.....

72 W1FMR

From ab4e1.com Wed Apr 27 14:51:11 1994
From: "Bob Scott" <bob_scott@cpqm.saic.com>
Subject: Dayton

Dayton

To all of you that are going to Dayton; May the sky be clear, the breezes
cool and the prices low. Please bring back lots of stories. 73 Bob AC4Q0

From ab4e1.com Thu Apr 28 18:56:33 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Dayton

I am leaving for Dayton in 30 minutes, so see you there. Will be back Sunday
late late. 72, Doug, KI6DS

From ab4el.com Mon May 2 10:18:52 1994
From: Duane P Mantick <wb9omc@ecn.purdue.edu>
Subject: Dayton

I have to apologize to anyone who tried to call me on 146.49 simplex saturday and didn't reach me - I wasn't there.

With the ()*&^\$R&^%\$%!!!! rain pouring down, my wife (N90XA) and I elected to flip-flop our schedules and go to the USAF Museum on Saturday and try to do the hamfest on Sunday.

Given that the museum is mostly an indoor activity, this worked out rather better. I noticed that half the museum parking lot consisted of vehicles with various varieties of antennas sprouting forth, and many call plates from all over. The majority were from the midwest (noted Ohio, Indiana, Michigan, Wisconsin, one Minnesota) but there were also several from further states, notably several from the New England states.

This is the second Dayton in a row that I've been peed on by Ms. Nature. On the way out yesterday afternoon, I called the talk-in/out and added my compliments on the hamfest and suggested that they shoot the weatherman. The gentleman running the talk-in/out replied that "the beatings have already begun". :-) :-)

I must also compliment the people doing talk-in/out for their patient ability to ignore the "repeater-trasher" bozo who kept popping in there. I doubt if I'd have been able to restrain myself that well.

I'm curious if any of you saw the fellow with the black anodized 3-element 2-meter beam, designed for ease of dissassembly and reassembly. It was super lightweight, looked reasonably effective, and was claimed to have a 6.1 dB gain. Admittedly, not the greatest gain figure in the world, but for someone who likes to hike and hike up mountainous terrain, such an antenna might be quite useful, and *certainly* better than a duck for fixed-point operations from summits and ridges. It used an end-mount scheme and was set up to run both vertical and horizontal planes, just by changing which pair of holes you run the U-bolt through. I believe he was asking \$64.95 for it.

(and, afterall, you *could* say an HT on 2 meters constitutes QRP.....

.....sort of, anyhow) :-)

So if anyone else saw this, your comments would be appreciated, and possibly others in the mailing group would like to hear them as well. *I* am thinking very seriously about ordering one of these just for

portable uses (could come in handy for portable emergency ops as well).

I also noticed two vendors that had *flexible* solar panels for sale. Strikes me as an outright dandy idea, and for those QRP folks who like to hike out to nowhere and op from wherever *nowhere* is, a real advance in portable power (even if just to recharge batteries). Some of these newer panel seem to have enough wattage that one could conceivably not need batteries during daylight hours. Nifty!

73's to all, and I hope all that went to Dayton enjoyed it in SPITE of the crappy weather.

Duane
WB9OMC

From ab4el.com Tue May 3 09:54:26 1994
From: Gary M Diana <gmd@adm01.rfc.comm.harris.com>
Subject: Dayton

The 1994 Dayton Experience

I spent most of the time in the Harris booth (working), but it was right next to the HUGE kenwood exhibit \$^).

The weather was terrible for the flea-marketeers... when it wasn't wet and cool, it was wet and COLD. On saturday morning, they were a lot of empty flea market spots, and those who have attended dayton in the past considered that unusual. I talked to several of the inside vendors, and the feeling I got was that business was very good for them. In general, those that attend dayton say they do not plan on good weather. BTW, the weather on monday was perfect, of course.

I visited the QRP hospitality room on saturday night. Got to meet Dave Benson, Cam Hartford, Bill Kelsey, Rev. Dobbs, Roy Lewellan, Doug Hendricks, John&Vicki Welch, Jim Kearman, Jim Fitton, Chuck Adams and many others. John had his techno-wizzy project, a couple guys from the missouri area brought their homebrew creations, and I got to see the original w7el creations: the optimized 40m DC rig and the famous wattmeter. The projects have a lot of character which the magazine and handbook articles just can't capture. I got to see Chuck's sierra transciever; the norcal club has done a neat job with this project, i.e. easy open/close lid, and using a computer edge connector for the plug-in band specific modules. The one thing I missed out on was the k5fo-special... anyone want to write up the details on that one??? Oh, and I got to see the new england club's latest superhet transciever too (saw it, liked it, ordered it).

The bottom line: despite the weather, it was a fun experience. Besides, where

else would you get to meet and talk to that many talented QRPers?

See you there next year.

- Gary N2JGU

From ab4el.com Thu May 5 11:23:30 1994

From: mvjfm@mvubr.att.com (James M Fitton +1 508 960 2577)

Subject: Dayton

Myron Koyle says that 30 folks have already committed for rooms at Dayton in 1995. If you want a room, better speak up.....Soon

The Internet has added new dimensions to QRP. Some very enthusiastic people promise to take QRP organization in an entirely new direction. With the increasing pool of talent available, the possibility of meeting in person at a central spot, Dayton, communication via the Internet, new relationships are forming, creativity is being released, and things are already beginning to happen. And this is just the beginning ! Stay tuned.....

72 W1FMR

From ab4el.com Thu May 5 15:22:28 1994

From: jkearman@arrl.org (Jim Kearman)

Subject: Dayton

Bill, KZ3I and I founded a new organization at Dayton, right there in the Hospitality Suite. Like so many of the new clubs, ours has no officers, no dues and no newsletter. Whenever two or more members get together we'll have a meeting. Since we have no officers, it's gonna be hard to tell who the members are. Maybe we'll develop a secret handshake.

Our No Power Club, QRT ARCI (Amateur Radio Causes Indigestion), is dedicated to the principle that SWLing is the sincerest form of QRP. And already we have a membership of thousands: Every Silent Key is automatically enrolled!

Please don't send applications to me. If you wanna join, you're in! This club is easier to join than Sam's.

70,

Jim, KR1S/QRT

From ab4el.com Fri May 6 15:22:20 1994
From: Mike J Pulley <Mike_J_Pulley@ccm.ch.intel.com>
Subject: RE: Dayton

Text item: Text_1

ON THURSDAY, 5 MAY 1994, JIM KEARMAN (jkearman@arrl.org) WROTE...

"Our No Power Club, QRT ARCI (Amateur Radio Causes Indigestion), is dedicated to the principle that SWLing is the sincerest form of QRP. And already we have a membership of thousands: Every Silent Key is automatically enrolled!"

Jim,

You really are thoroughly out of control! :) :) Dayton must have been too stimulating.

The QRT ARCI could even hold contests. Points are earned by not answering stations calling "CQ QRT". Bonus points are awarded for not answering stations who refuse to call in the first place.

Multipliers are...

1x	listened all weekend
2x	mostly listened to dead static all weekend
5x	didn't turn on the radio all weekend
10x	avoided the contest entirely by visiting in-laws

Imagine! All weekend, the bands would be filled with the sounds of receivers ignoring one another. Let's establish "QSH" to mean "please stop transmitting; you are dragging down my contest score".

If QRT is the sincerest form of QRP, then are cat whisker crystal receivers the QRP version of QRT?

Regards,

-- Mike, WB4ZKA

```
=====
Mike Pulley                                Intel Corporation
Phoenix, Arizona (USA)                    Mike_J_Pulley@ccm.hf.intel.com
Callsign: WB4ZKA
QRP rig:  MFJ-9020 20m CW, Ten-Tec PM2-B
QRP ant:  Butternut vertical at ground level
QRP interests:  Operating (WAS or bust!)
=====
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From ab4el.com Mon May 2 15:18:56 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Dayton 94Dayton was GREAT!!! Even though it rained hard the first 2 days,

I didn't care, because I was with my friends, and had a ball. The trip was tiring, starting with an all night flight from Sacramento to Dayton and arriving at 8 AM where Jim Cates, WA6GER picked me up. We drove to the hotel, checked in and then went to the Hamvention. Wow, was it ever crowded. Everyone was inside as it was raining hard outside.

It was a veritable who's who of QRP this year. Some of the guys who were there were:

Randy Rand, AA2U, World Champion QRP Contester, Chuck Adams, K5FO; Jim Fitton; Cam Hartford, Jim Cates, WA6GER; Buck Switzer & Lowell Corbin from the Michigan QRP Club, George Dobbs, Chris Page & John Beech from the G-QRP Club, Bill Kelsey from Kanga, Gary Diana, Pat Tandem, Steve Hideg, Ron Majewski, Bob Gobrick, Dave Benson (Mr. NN1G), Roy Lewellen, Dick (Ark 40 designer), Les Shattuck, Myron Koyle, Ralph Conley, Marvin Tanaka, Rich Arland, Bruce Milne, Dave Little, Mike Bryce, Jim Kearman, Denton Bramwell, Les Shattuck, Byron Weaver, Jim Johns, Dennis & John Utley, Don Kozlovsky, John and Vicki Welch, plus a ton of other guys who I can't think of now. It was overload time for my brain.

The new president of ARCI, Les Shattuck, officially took over the reins, and he has some definite plans to revitalize and improve ARCI. His number one goal is to improve the Quarterly, with timely delivery a priority. Paula Franke will continue as editor. She has been give permission by both the New England and NorCal QRP Clubs to reprint articles. You are hereby invited to join ARCI. Send \$12 to Mike Bryce for membership. His address is Mike Bryce, WA8VGE, 2225 Mayflower, N.W., Massilon, Ohio 44647. I highly recommend that you join. We need your support.

Plus, please write and submit articles to ARCI. Don't complain about the Quarterly's content if you haven't submitted an article. This is our organization, and we need to get to work to improve it.

I met Martin Jue, president of MFJ at the MFJ booth. He sold me a new 20 meter SSB rig...(They only brought 2 to Dayton). Will let you know how it works when I get time to operate. By the way, I have had 14 hours of sleep since Thursday morning, so this might be a little rumdum. Also bought a Regen. Receiver kit from TenTec but will have to wait to have it shipped.

Dick from S&S Engineering was there with the new smaller ARK 4 kit. Looks nice, but I didn't get a close look.

I had a great time collecting articles: The September issue of QRPp will have THREE ssb construction articles, and I have found a source for the filters!! These articles will contain PC board info. They have been written by Derry Spittle, George Dobbs, & Alan Hands. Also, John Welch will do an article on how to design and build a 9 MHz ssb filter. We talked about it at the ARCI hospitality room, and John is happy to do the article. Roy Lewellen gave me permission to reprint an article that was in the St. Louis QRP Society newsletter. It is a QRP Amplifier, called the Brickette.

The QRP Forums were outstanding: George Dobbs gave one on Friday after noon on constuction practices. He had examples and slides of almost every type of rig from simple to complex. George is an excellent speaker (must be because he practices every Sunday!!), and if you get the chance to hear him, don't pass up the opportunity.

Randy Rand and Paula Franke talked about Contesting and DXpeditions Saturday. Randy told us all about the Arruba trip and the trip to Arizona for the sweepstakes. It was an interesting talk, and maybe we can convince Randy to write a summary for the net. Hint Hint. I saw the pictures of the antenna farm that he has. WOW!

Paula talked about her experiences doing dxpeditons from a low key standpoint. She likes to stop and smell the flowers on the way. Goes to prove that there are many different parts of the hobby.

Sunday, Jim Fitton, Chuck Adams and I talked about the respective regional QRP clubs. Jim talked about the New England Club, their 30-40 and 40-40 project, plus the QRP Afield day that is going to

happen in September.

Chuck talked about the internet, qrp in general, and how to have fun. He gave some great advice. Plus, he registered an official complaint. There have been hundreds of references to the NorCal 40 on the internet. Every time Chuck sees that in the title, he gets excited because he thinks the message is about him, as he is NorCal #40. (GRIN)

I talked about the NorCal group and QRPP. I explained our philosophy of having fun and avoiding rules, meetings, minutes, all that club stuff. We also officially introduced the Sierra and passed out order forms. The rest of the NorCal members will get their order forms in the near future. They are being mailed to all members first class.

Orders were taken for the Sierra and the NorCal 40 Partial kit at the hospitality room. We took orders for 35 NorCal 40 partial kits, so that rig is still popular.

Saturday night was highlighted by the ARCI Banquet. In the past, the group has ordered in pizza, but we had a new experience this year. Les Shattuck decided to have a banquet and we had over 60 people attend!! The meal was excellent, and afterwards, the members were given a State of the Club message by Les and Myron Koyle our treasurer. Then the fun began. I presented the very last full NorCal 40 kit that we had been saving for George Dobbs. I figured that we owe George for copying so much from Sprat for the first issue of QRPP. He was very pleased and happy to receive the rig. Several door prizes were drawn with the main prize a MFJ 9020!!! Bravo to Les for an excellent idea and starting a new tradition.

Gary Diana was there with his NN1G home brew rig, complete with homebrew case. Gary is an artist when it comes to packaging, and he has agreed to write an article for QRPP. I enjoyed meeting Gary and all of the guys face to face for the first time.

Bruce Milne of this group had his logger software there. It is set up to run ARCI contests and the Michigan and NW contests. I think you send Bruce \$2 plus a formatted 3.5" disk to get a copy. It even scores and prints the entry forms for you.

Cam Hartford made his first trip to Dayton and reported that he is catching up on 3 YEARS of unscored contest results!! The results will all be published in the Quarterly and he will be up to date by the October issue. To give you an idea of the work involved, he has to print up almost 400 certificates for past winners.

Last year Jim Cates and I discussed forming NorCal on the plane ride home. This year, Jim came up with a fantastic idea for a club activity, and I will be posting more details later. We talked about the weekend and both agreed that the best thing about QRP is the people involved. Next year, you must plan to attend Dayton. Start saving your coins, and figure a way to get there. You won't regret it.

I will post more later when I am caught up on some sleep.
72, Doug, KI6DS

From ab4el.com Wed May 4 11:51:37 1994
From: mvjfm@mvubr.att.com (James M Fitton +1 508 960 2577)
Subject: Dayton de W1FMR

Gang,
Dayton was great this year. In spite of the rain, many QRPers said it was the best gathering ever. Having gone for 9 years straight, I wholeheartedly agree. QRP PEOPLE ARE BEAUTIFUL.

Myron, N8DHT is a master at negotiating, and provided us with 53 rooms full of kindered spirits, and a hospitality suite to play in. 135 QRPers signed the hospitality suite roster and 50 of us are on Internet. The roster looks like a "Who's Who" of QRP.

ARCI provided a MFJ 9020 doorprize at the QRP banquet on Sat. evening. Other prizes were: Colorburst kit from QRP-NE, "History of QRP" from Ade, W0RSP, a partial NorCal40 kit from NorCal QRP, and a G-QRP club membership from G3RJV.

Chuck, K5F0 sponsored the trophy for the "QRP-Afield" 6 hour QRP field operating event by QRP-NE on September 17. THANKS CHUCK !!

Congratulations to Doug, KI6DS who became a member of QRP-ARCI board of directors. Interesting to see so many leaders of smaller clubs volunteer to help run ARCI. A leader is a leader etc...

Doug and Chuck suggested that ARCI do a HB project. Not so much to make money as to get members participating in an enjoyable part of the hobby. ARCI, under new president, Les, WN2V, agreed that would help generate forward movement for the club.

Following the tradition of the NorCal 40 club project rig, the new Sierra looks terrific. All bands in a small package looks like the way to go. A SASE to KI6DS will bring particulars on this

dynamite all band CW rig club kit.

I bought the ELNAC program from Roy, W7EL and hope to model a killer antenna for QRP-NE to use on field day, and QRP Afield.

The NW QRP club offered another field day challenge to QRP clubs. NorCal forfeited the prize last year when they admitted to having too much club participation. In this years challenge, submit the number of contacts made on 3 transmitting stations, using wire antennas to qualify.

Because of the pouring rain, not too many antennas were up outside of the hospitality suite. Next year, we hope that folks that arrive by car bring a few poles and antennas. Hard to fit a tower section under the seat as airline carry-on. Outside the hospitality suite stands a few low bushes and a half acre of green lawn. Miss that 11th floor full wave loop at the old Belton Hotel.

Rick Littlefield, K1BQT brought a new window fan antenna from MFJ to try at the hosp. suite but the SWR indicator unit looked like it got dropped, and did not work right. Too bad, as many stations were heard on receive, when the unit was peaked.

Doug, KI6DS showed a beautiful NorCal logo patch, which each member of NorCal will receive..... What a guy ! What a club !! They went over the 500 member mark at Dayton and they are just 1 year old !!!

Meeting some of these fantastic, creative people at Dayton excites the grey matter in a way that has to be experienced. Ideas that you could never imagine, come from the best of the best people. Save your money and go in '95'. The excitement is building !! Next year is the 10th anniversary of the QRP-ARCI at Dayton and promises to be very special.

Jim, W1FMR

From ab4el.com Sun May 1 17:19:43 1994
From: teda@meaddata.com (Ted Albert)
Subject: Dayton reflections

Just some quick reflections on Dayton. No doubt everyone will comment on the rain and what effect it had on the flea market. I managed to look around on Friday and on Saturday. I saw two Ten Tec Century 21 xcvs for sale in the flea market. One had the digital read-out modification and looked to be in great condition. The owner was away and everything on that table was under

plastic to protect it from the rain. The other Century was in nice condition and the owner was asking \$145.00. I saw an Argonaut 509 with two external linear amps and matching power supply indoors at one of the vendor booths. The 509 was priced at \$249.00, the amps at \$150 each and the ps at \$50.

George Dobb's presentation Friday afternoon was great! Everyone who attended now knows how he manages to produce those GREAT looking front panels. He offered his views on the general state of the hobby and speculated that with the current prices and types of components available, this was a great time for building gear. He used a combination of overheads and actual units to show the various rigs he has worked on. The presentation was sprinkled with bits of humor and insights into design considerations using the current generation of mixer chips.

The presentation left me with a great feeling about our hobby and the determination to get building again. I purchased a new membership in QRP ARCI and loaded up on all the parts I could find and some kits to boot. Time to stop reducing the power level on the Century/21 and the Icom 735 to qrp levels and get building. I cleared some space in the basement for a work area and when I leave this office this afternoon, the soldering iron is going back into service.

Should have some of the new stuff cooking on 40 meters soon. Can't wait!

73 de Ted Albert, KF8EE

From ab4el.com Tue Apr 26 16:21:28 1994
From: Terry Murphy - AB4VJ <ab4vj@mercury.interpath.net>
Subject: Dayton Room Open Thurs-Sat

This message is in MIME format. The first part should be readable text, while the remaining parts are likely unreadable without MIME-aware tools.

--1928593912-1997826041-767389916:#4996
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have a room right across from the dayton Mall for
Thurs, Fri. and Sat....great access to shuttle buses and
dining and even go-karts....
All I ask is that you make reservations for me for next year.
The Motel 6 is a nice clean (read cheap too)
place

email to av4vj@mercury.interpath.net

73and 72


```
--1928593912-1997826041-767389916:#4996
Content-Type: TEXT/PLAIN; charset=US-ASCII; name=".sig"
Content-Transfer-Encoding: BASE64
Content-ID: <Pine.3.89.9404261556.F4996@mercury.interpath.net>
Content-Description:
```

From ab4el.com Tue Apr 26 15:46:14 1994
From: mvjff@mvubtr.att.com (James M Fitton +1 508 960 2577)
Subject: Dayton Update

(tentative) Dayton Hospitality Suite & Events 1994

Fri..... Flea market opens early*
 QRP ARCI, MI-QRP, G-QRP/Kanga booths set up and open.
 G-QRP Forum - Building and Construction - George, G3RJV
 Evening: Dine at hotel or local restaurants.
 7pm to 2am. Hotel - QRP Hospitality Suite activities:
 Introductions, equipment operation, demonstrations.
 H.B. Show and Tell., 9:00 QRP-New England meeting

Sat..... Flea market opens early*

QRP ARCI, MI-QRP, G-QRP/Kanga booths open all day.
QRP Forum - Anyone Can Do It - Paula, WB9TBU, Randy, AA2U
7pm to 2am. Hotel - QRP Hospitality Suite activities:
ARCI BOD Meeting 7p.m., Beer & Pizza party 7:45 p.m.,
H.B. Show and Tell. Official QRP-ARCI Meeting 9-9:45 p.m.

Sun..... Flea market opens early*
QRP ARCI, MI-QRP, G-QRP/Kanga booths open.
Hotel - QRP Hospitality Suite closed.
QRP Forum 9:30 a.m. - Jim, W1FMR Doug, KI6DS, Chuck, K5FO
(Secrets of QRP-NE, NorCal, and N.Tex QRP clubs)
Close up QRP booths and head home.

* John, WA3SRE has a flea market table for QRPers.

FYI - Thursday 4/28
I will be arriving on US AIR Fl#458, (3:37 p.m.), immediately
pick up a 7 passenger van at National (4:10), go to the Harrah
Arena QRP booth (4:45), leave Harrah for hotel (6:00).
Plenty of room for QRPers.

IF YOU ARE AT HOME, LOOK FOR THE GANG ON THE AIR /8 from 7 p.m.
to 3 a.m. on Thu, Fri, & Sat. evenings. (QRP frequencies)

IF YOU ARE STAYING AT THE HOTEL, BE SURE TO CHECK OUT THE GREAT
QRP PORTABLE/HOTEL, HB STATIONS AND ANTENNAS OF THE EXPERTS.

72 Jim W1FMR (rooming with NN1G)

From ab4el.com Tue May 3 13:44:24 1994
From: Clark Fishman (FSAC-FCD) <cfishman@PICA.ARMY.MIL>
Subject: Dayton Weather

Saturday: rain...followed by more rain....followed by lots more rain

Sunday: cold....damn cold...windy....damn windy....damn windy and cold

had a great time: WA2UNN.....artificial hip joints for sale

\$15000 installed...\$10.00..do it yourself

antbody can sell you a radio....I had hip joints.....

From ab4el.com Tue Apr 26 19:52:53 1994
From: Brien Pepperdine <pepperb@gov.on.ca>
Subject: Dayton-reports please

I am probably anticipating the obvious reports and tales that will arrive post-Dayton, but I am eagerly awaiting all the good news from what is seen and shows up and happens at Dayton.

Particularly from Kanga, 624 Kits, OHR and anyone else offering small kits and components. Sounds like Kanga might have some pleasant surprises given that bother to go from U.K. to Ohio.

Have fun qrpers. I'd be there if the Canadian dollar exchange was not quite so disadvantageous. Maybe another time- sounds like the qrp happenings will be quite fun.

From ab4el.com Fri May 6 09:38:18 1994
From: okas_rp%ncsd.dnet@gte.com
Subject: DigiKey resistors in dummy loads

Hello All,

Stephen, KB8PWA, asks:

>I noticed that Digikey has metal oxide film power resistors. The description
>says, "non-inductive design", but there is no note on inductance beyond that.

My \$0.02:

I've built a dummy load composed of these devices and I have had very satisfactory service from it. SWR is under 1.2:1 up to 440 MHz, which is the extent of my abilities to test it. Basically, there are 16 of the 2W devices in series/parallel for a total of 32W dissipation in dry air.

My version is built into a 1 qt. paint can. An SO-239 is installed on the lid and two brass strips extend down from the mounting tabs into the can. 4 strings of resistors straddle the brass strips. The hot end of the strings is connected to the center pin of the SO-239 while the cold end is attached at the far end of the strips. Each resistor string sits about 1/8" above the brass strip ground plane.

For QRO applications, the can may be filled with mineral oil. The designer claims it can dissipate over 100 watts for short durations.

I just got my May-June DigiKey catalog and the resistors in question appear on page 205. The 2W Yageo devices are what I used. They're \$0.23 each in under-10 quantities; i.e. really cheap. I used 47 Ohm devices, though 51 Ohm parts are obviously a tad better choice.

As a side note, the Ten-Tec kit catalog has a 300 watt dry dummy load for a mere \$22. Something to think about...

73,
Bob - N3MBY

From ab4el.com Tue Apr 26 02:38:31 1994
From: mvjfm@mvubr.att.com (James M Fitton +1 508 960 2577)
Subject: Famous QRPers

In the May issue of QST, notice that Randy, AA2U won the ARRL SSB SweepStakes (SS) contest for the Hudson Div. and that QRP-NE is listed as the trophy sponsor.

Also in the April issue, read the excellent 10 meter Vertical antenna article by Chet, AA1EX.

What is it with these AA prefixes ?

72 W1FMR

From ab4el.com Thu May 5 17:23:17 1994
From: Bruce Walker <bruce@Think.COM>
Subject: final, final list

Oops, I forgot: AA2U & KA0IQT, so here's the final, final list:

AA1EX AA2U AC4HF AC4QO DL1SDZ K5FO KA0IQT KA2UPW KB5RUF KB7TCY KB9FKO
KD4YRN KF2JH KI6DS KR8L KT3A KU7Y N1IRZ N1PBT N2ALE N2JGU N3PFF N4AOX N6ULU
N8ET N8HSC NR3Z NW0O NX1K VE2KN VE5VA VE6GK VO1DRB W1FMR W5TFB W6RCL WA4VQD
WB2CPU WB4TPW WB4ZKA WB7EEL WB8RUQ WD9EYB WO7T WT1M

--bruce

From ab4el.com Sun Apr 24 18:57:35 1994
From: g3rjv@gqrp.demon.co.uk (George Dobbs G3RJV)
Subject: G3RJV Mailings

Gentlemen : I will be away (Dayton) from April 25 thru May 5 and would be glad if you withheld sending mail while I am away.

73 etc.....

--

George Dobbs G3RJV
G-QRP Club

"It is vain to do with more,
what can be done with less."

----- William of Occam (1290-1350)

From ab4el.com Tue Apr 26 08:34:32 1994
From: N8ET@delphi.com
Subject: G3RJV, G8SEQ, G-QRP have arrived

G3RJV and G8SEQ arrived safely at my QTH last night about 9:30. We will be checking into Internet several times between now and our departure to Dayton Tuesday AM. They have come loaded with kits and books from the UK - They even have a prototype ssb xcvr..... I have not seen what is in it yet - but will have the info at the G-QRP booth and at the ARCI suite.

72/73 - Bill - N8ET

From ab4el.com Sun Apr 24 12:57:16 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Going to Dayton???

If you are going to Dayton, please remember to stop by the ARCI Hospitality Room at the Day's Inn Dayton South. To find the room, go to the front desk and inquire. It will be open at 6:30 each evening til ??????. See you there.
72, Doug

From ab4el.com Sun Apr 24 19:46:48 1994
From: aarnett@prairienet.org (Andrew Arnett)
Subject: headphones question

I've been scrounging around for headphones recently. I've been looking for "gonzo" over the ear stereo hi-fi type headphones since I'd like to use them for music as well as CW. I wired up a box with 2 switches to take mono in and provide mono out to a stereo plug with the headphones in phase and with the headphones out of phase. It's dramatic to hear the difference. The other switch puts a cap across to cut some of the hiss.

I found a pair of genuine metal can headphones at a sale this weekend. They are Koss "Pro/4AA" headphones and look as old as I am. :-) On the bottom outside of the phone with the cord, there is a bolt with a rubber washer and an aluminum knob screwed on. My question is: what is the bolt/knob for??? Did people need to hang something off of their headphones in the 60s/70s that they don't today? :-)

Thanks,
Drew kb9fko

From ab4el.com Mon Apr 25 10:43:08 1994
From: rohrwerk@holonet.net
Subject: headphones question

On 04-24-94 aarnett@prairienet.org wrote to qrp@Think.COM:

> They are Koss "Pro/4AA" headphones and look as old as I am. :-) On
> the bottom outside of the phone with the cord, there is a bolt with a
> rubber washer and an aluminum knob screwed on. My question is: what
> is the bolt/knob for???

It's for a boom mike! Shouldn't a ham be able to recognize *that* :-)

Actually, you're in good company. I wondered the same thing for a long time when I had my pair in the late 60's early 70's. They're kinda heavy, as I remember, but I listened to so much music in detail on them, it was worth it. Can't remember if I borrowed them for hamming or not.

```
* John Seboldt...Mpls, MN...As a ham, K0JD...as a human...well,... *  
|                               rohrwerk@holonet.net                     |  
*           "Aaaaaahhh.... BAAAAACH!" -- Radar O'Reilly                *
```

-> Alice4Mac 2.3 E QWK Eval:05Mar94

From ab4el.com Thu Apr 28 19:06:49 1994
From: Mike J Pulley <Mike_J_Pulley@ccm.ch.intel.com>
Subject: RE: High impedance phones

Text item: Text_1

Might it be easier to install an impedance matching transformer in the rig rather than to buy unique headphones for a Hi-Z receiver?

An impedance transformer can be either inductor- or op amp-based. If you go the op amp route, you could coax out a little more gain if needed. I'm sure the analog guys on the net are more familiar with the latest single-supply op amps than me, and can probably recommend a circuit for the job.

Regards,

-- Mike, WB4ZKA

```
=====
Mike Pulley                                Intel Corporation
Phoenix, Arizona (USA)                    Mike_J_Pulley@ccm.hf.intel.com
Callsign: WB4ZKA
QRP rig: MFJ-9020 20m CW, Ten-Tec PM2-B
QRP ant: Butternut vertical at ground level
QRP interests: Operating (WAS or bust!)
=====
```

From ab4el.com Fri Apr 29 04:34:35 1994
From: jerry@tr2.com (Jerome Kaidor)
Subject: Re: High impedance phones

Re: Source of high-impedance headphones,

I believe that Sennheiser stereo headphones are fairly high-impedance, about 2000 ohms on my ancient 1979-vintage ones. Of course, if you don't rewire the phone plug, you'll get sound in just one ear....

- Jerry Kaidor, KF6VB

From ab4el.com Wed Apr 27 15:18:38 1994
From: James Speer <F_SPEERJR@CCSVAX.SFASU.EDU>
Subject: High impedance phones

The subject of high impedance phones for the HW8 has come up several times. About a year ago I got a good pair from Madison Electronics in Houston at a reasonable price. They may still have some. Think they still usually advertise an 800-number in QST.

Except for the fact that DON, the owner, gave me my novice test in 1958 (which makes him even an O'er F than me), I have no relationship with the lash-up.

72!
Jim
K5YUT

From ab4el.com Mon Apr 25 08:14:53 1994
From: Bob Gobrick WA6ERB <70466.1405@CompuServe.COM>
Subject: Homebrew Iambic Key

TO: >INTERNET:qrp@think.com

Ted KC5CWW asked a while back about my home brew no moving parts, low power, QRP certified, iambic key.

For those interested the key was featured in the May 1991 issue of 73 magazine in an article by Charles Rakes KI5AZ. I'm not sure if the kits for the key are still available (wood base, pc board, parts etc for \$27.95) from Charles at Krystal Kits, Box 445, Bentonville AR 72712.

If anyone writes Charles please let me know if he has this "Copperhead Keyer Paddle" still available and the variation of it called the "Bugger" (I think that's what's it called - appeared in an issue of Radio Fun) which has the dits built in (Something Chuck K5FO "dit dit" can use).

73 Bob WA6ERB/V01DRB

From ab4el.com Fri May 6 16:19:55 1994
From: GroverC@gvgadg.gvg.tek.com (Grover Cleveland)
Subject: HW-8 Manual Reprints

Hello Fellow Low-Power Addicts,

Today I created a master copy of the Heathkit HW-8 manual. This does not include the assembly section but does cover the following areas:

- Introduction
- Parts Lists
- Initial Tests
- Alignment
- Operation
- Troubleshooting Chart
- Specifications
- Circuit Description
- Circuit Board X-Ray Views
- Circuit Board Voltage Chart
- Identification Chart
- Block Diagram
- Alignment Pictorial
- Schematic (reduced slightly - a little hard to read but it can be done)

If you or a friend needs one, send me a mailing label and a guess on the postage and I'll make a copy and send it back. It is about thirty five pages in all.

G. Cleveland, WT6P
20892 Bald Ridge Drive
Penn Valley CA 95946

[Disclaimer: I am doing this as a favor to the qrp community. I make no money off this venture; I think I'm losing money . If Heath Co. has these available, then someone please let me know and I'll withdraw the offer.]

Thought for the day: "72" is silly. If we are truly QRPers then we should send something like "7.3" or "0.73" - sure 'nuff.

Internet: groverc@gvgadg.gvg.tek.com Radio: WT6P@KE6LW.#NOCAL.ca.us.na
Voice: (916) 478-3153 QRP#3795 DoD:7388 Fax: (916) 478-3831
"Snoozing in the grass next to the information goat path."

From ab4el.com Mon May 2 21:24:16 1994
From: steve@info.pgh.pa.us (Stephen D. Cohen)
Subject: HW-8 Manual, tips, etc.

I acquired a dirty gerty HW-8 at Dayton for \$45, and am getting ready to get it on the air. Once I get to the Shack for a molex plug, an audio transformer, and some connectors (to jigger the audio), I'll be ready to rock (vfo, actually).

What I lack is a manual for the rig. I know a bit about it, but wouldn't want to debug a non-functional one without a schematic (Eeek!). Of course, I don't know that it is non-functional, but given the exterior appearance and confidence inspiring sheer quality exuded by the seller, I have my doubts.

If anyone can help me out with a manual (xerox, original, whatever...), let me know. Of course, I'm willing to pay reasonable expenses/prices.

I'd also like to hear any tips that folks might have about this rig. I picked up a copy of the HW-8 book (which seems to start with 15 pages on the 9... Sheeesh!), but it seems to have a few mods that look good, and a few that don't look so good.

In particular, I'm interested in knowing which RIT mod people like, which 30 meters mod people like (I'll give up either 15, 20, or 80. No way I'm losing 40, my favorite!), and which other updates folks think are worthwhile.

Thanks in advance (especially for manual pointers!).

Steve

From ab4el.com Tue Apr 26 21:06:30 1994
From: Lynn Geitgey <GEITGEY%UKANVM.bitnet@vm42.cso.uiuc.edu>
Subject: HW-8 mods

Hi All,

Where can I obtain a list of mods for the Hot Water 8. I have the HW-8 Handbook (the new one), and it mentions other mods. Any help would be appreciated.

72 de KB0LRB

From ab4el.com Sat Apr 23 19:51:56 1994
From: BHOWLE@delphi.com
Subject: HW-8 Tuning Cap. Needed !

Help - I'm trying to locate a main tuning capacitor for my HW-8.

I'd loaned this radio to a friend and I guess one of his rug rats just decided to try to crank the tuning knob past the stops - oh, well -

Any help would be appreciated - this is the only thing that's wrong with the radio and will be an easy fix - if I can find the part -

TNX,
BOB

WA4ZID/5

From ab4el.com Sun Apr 24 06:21:05 1994
From: James Lyons <jlyons@CAM.ORG>
Subject: Re: HW-8 Tuning Cap. Needed !

On Sat, 23 Apr 1994 BHOWLE@delphi.com wrote:

>
> Help - I'm trying to locate a main tuning capacitor for my HW-8.
>
> I'd loaned this radio to a friend and I guess one of his rug rats
> just decided to try to crank the tuning knob past the stops -
> oh, well -
>
> Any help would be appreciated - this is the only thing that's wrong
> with the radio and will be an easy fix - if I can find the part -

>

Try phoning 616-925-5899 or faxing 616-925-4876. If you are lucky the part MAY still be available from Zenith at those number.

72

Jim, VE2KN

From ab4el.com Wed Apr 27 17:51:28 1994

From: Mark Shelhamer <ms@space.mit.edu>

Subject: HW-9

I recently acquired an HW-9 (and accessories) from someone on the net, and I must say that the QRP bunch truly does seem to engender the good old ham spirit of friendliness and generosity. All aspects of the deal were a true pleasure.

Now for the inevitable question. Is there enough info on the HW-9 in the modification book that is available to make it worthwhile? If so, could someone send me the address of where to get the book (I never thought I'd actually own one of these, so I didn't save the book information).

Also, about a month ago someone posted his experiences with getting a dead HW-9 (or was it an HW-8?) working. It was a rather detailed posting, as I recall. Can anyone give me a lead on this?

73

Mark

WA3YNO

From ab4el.com Sat Apr 23 20:27:25 1994

From: James Speer <F_SPEERJR@CCSVAX.SFASU.EDU>

Subject: HW8 Alive!

Finally got time to tinker with the old HW8. Replaced dead TR relay timing electrolytic and a couple of switching diodes and fired it up on 20. First rattle out of the barrel came K5SV in Orlando, whose s-line gear was unmistakable from it's great keying. He was a solid nine, and he gave me (with my ground-mounted vertical on 20) a 5. We were both using ancient bugs, so must have sounded like a throwback to the '40's. We talked for a solid hour, mostly about the coincidence that we both run and prize middle-70's lincolns, before the band shifted and we said our 73's. I might as well have been running a

kilowatt. Guess I'm going to have to try out real QRP and get down in the milliwatt range. Anybody ever try putting a 555 on the air? With LOTS of filters, of course :-).

72!
Jim
K5YUT

From ab4el.com Thu May 5 14:45:15 1994
From: C=BAILEY%IS%211EIS@ANG193FS.ang.af.mil
Subject: ICOM 725/726 ON QRP

I have the 726. There is a built in whisper fan. Does the fan turn during transmit or when temp is too much? Perhaps this is why Chuck had a dead battery in Dinosaur Valley :-).
72/73 de KT3A, Cameron.

From ab4el.com Thu May 5 13:32:28 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: ICOM ALC voltages

Remember gang, even though you adjust the ALC voltage to reduce the output power to QRP levels, the rig still continues a healthy amount of current. I found this out last year at the Dinosaur Valley DX Society QRP Field Day site.

We had a I-725 on battery. During and after the contest, we were reminded that we had a chirp (bad) and when we checked the battery was very very low.

But hey, we were QRP. :-)

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Thu May 5 14:26:35 1994
From: Peter Hardie <hardie@herald.usask.ca>
Subject: Re: ICOM ALC voltages

On Thu, 5 May 1994, Chuck Adams wrote:
> Remember gang, even though you adjust the ALC

> voltage to reduce the output power to QRP levels,
> the rig still continues a healthy amount of
> current.

I measured the current drain on my IC-735 at various output power levels:

4 amps at 1W (with the ALC mod)
7 amps at 6W
10 amps at 15W

The rig is specified to take 20 amps at full blast output and I measured it at 1.4 amps on receive only (squelch open).

So putting out 1W of RF requires on the order of 50W DC input and listening time still costs you over an amp.

73 de Pete
ve5va.qrp@usask.ca

From ab4el.com Fri May 6 19:40:07 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: K5F0/6

Just in case anyone cares, I'll be /6 again the next week in Mt. View CA, staying at the Summerfield Suites in Sunnyvale. I've asked for a second floor room in the back so that I can get 80' or more long wire up on 20M and 30M. Hope for good conditions on the band.

dit dit
Chuck Adams K5F0 CP-60
adams@sgi.com

From ab4el.com Wed Apr 27 13:49:41 1994
From: mvjfm@mvubr.att.com (James M Fitton +1 508 960 2577)
Subject: Kits

If Mr. Murphy has struck.....

QRP-NE will be extremely happy to supply any missing components from a 40/40 club project transceiver kit.

Send requests to

Jack Frake, NG1G
Box 1153
Barnard VT 05031

72 W1FMR

From ab4el.com Tue Apr 26 08:06:52 1994
Subject: kk7b, DC/no image, etc.
From: gmd@rfc.comm.harris.com

Hello All -

I've seen the recent postings on the lack of availability of the rick campbell r2/t2 boards. I waited months for mine too (still haven't done anything with them!).

There is one kit maker that sells a rick campbell design: 624 Kits. They sell the Classic 40 Receiver kit, a design from the August 1992 QST. I think it is the r1 version though.

For those who don't know about 624 Kits, here's the info:

624 Kits
171 Springlake Drive
Spartenburg, SC 29302
803-573-6677

I have ordered several kits from 624 and have been happy with the service and quality. And I wasn't paid or compensated for stating this opinion, I'm just a satisfied customer.

73 and hope to see some of you in dayton.
- gary n2jgu

From ab4el.com Tue Apr 26 15:32:34 1994
From: laurahal@microsoft.com
Subject: RE: kk7b, DC/no image, etc.

I've suggested this before, and think it's relevant to designs like T2 and R2 - do a semi-kit, with the PCB and the parts that are known to be critical and/or hard to find in less than OEM quantities. For the T2 and R2 this would include matched components for the phase-shift networks.

73 from Burnaby,
laura VE7LDH

From ab4el.com Wed May 4 09:02:55 1994
From: hideg@qmserv.erim.org (Steve Hideg)
Subject: Little Keys

Subject Little Keys

Did anyone see the tiny straight keys for sale in the Dayton Hamvention flea market?

There was a car parked somewhere in row 1, 2, or 3, just west of the main arena (near the pub). There were a couple of these miniature keys on the trunk lid. One had a tag under it that read something like "very rare". And it was marked \$35. The proprietor of the display was not around. The key felt really good. I'm kicking myself now for not waiting around for the fellow to return.

Anybody know who that guy is? I'd like to get in touch with him.

You know, anyone could have simply walked off with those keys.

Any info would be appreciated.

72

--Steve, N8HSC

From ab4el.com Mon Apr 25 00:43:42 1994
From: Alan Kaul <kaul@netcom.com>
Subject: Mail ADR for suppliers?

I've ordered the partial parts kit for the Norcal 40, and have the list of other parts. Does anyone have addresses and phone numbers for Mouser, Digikey and RF Parts, pls and tnx, and 72 de W6RCL.

[<Alan Kaul>] kaul@netcom.com

From ab4el.com Fri May 6 08:09:08 1994
From: Stephen Trier <sct@po.cwru.edu>
Subject: Metal oxide film resistors for dummy load?

I noticed that Digikey has metal oxide film power resistors. The description says, "non-inductive design", but there is no note on inductance beyond that.

The price is right. The resistors are \$.47 each for the 3W size. They seem ideal for QRP dummy loads.

Stephen

--
Stephen Trier
sct@po.cwru.edu
KB8PWA

From ab4el.com Fri May 6 09:57:42 1994
Subject: Re: Metal oxide film resistors for dummy load?
From: "John F. Woods" <jfw@ksr.com>

> I noticed that Digikey has metal oxide film power resistors. The description
> says, "non-inductive design", but there is no note on inductance beyond that.
> The price is right. The resistors are \$.47 each for the 3W size. They seem
> ideal for QRP dummy loads.

I think Zack Lau recently mentioned on sci.electronics that they're good to about 200MHz; they *are* ideal for HF QRP dummy loads, and *much* cheaper than equivalent power carbon composition resistors.

From ab4el.com Sun Apr 24 21:29:17 1994
From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: mfj 945-c versa tuner ii

Someone is selling an MFJ 945-C Versa Tuner II for \$55. I usually build my own stuff so I'm out of touch with these commercial gizmos. Anyone know the original price? His ad said it could measure up to 300 watts (why would anyone use that much power? is it legal?) - but what about qrp levels? How accurate would it be with output at 1 watt (measuring output and SWR)?

Jeff NH6IL

From ab4el.com Mon Apr 25 11:13:20 1994
Subject: Re: mfj 945-c versa tuner ii

From: "John F. Woods" <jfw@ksr.com>

> Someone is selling an MFJ 945-C Versa Tuner II for \$55. I usually build
> my own stuff so I'm out of touch with these commercial gizmos. Anyone
> know the original price? His ad said it could measure up to 300 watts
> (why would anyone use that much power? is it legal?) - but what about
> qrp levels? How accurate would it be with output at 1 watt (measuring
> output and SWR)?

I think they're not selling it anymore, but the MFJ-948 which seems to have the same description is \$129.95. I have the -D version (including 300W dummy load), and it has a low/high power setting. Assuming the low power setting is 0-30W (I can't find the blasted manual) it agrees with my Heathkit wattmeter at the 5W level. I've had fairly good results trying to match short random wires with it, but yesterday I was unable to tune up my new ``G5RV'' dipole on 20m. However, it has just occurred to me that I probably have a worst-case antenna here: it's about 120-130 feet long, which is close to a multiple of a half-wavelength (in fact, it's probably two half-wavelengths on each side of the center). Or maybe I've just discovered that the tuner is a piece of junk. Who knows?

From ab4el.com Mon Apr 25 12:16:00 1994

Subject: Re: mfj 945-c versa tuner ii

From: "John F. Woods" <jfw@ksr.com>

Actually, I think the 941E is a closer match to the 945, and is \$110.
(MFJ's ads are not laid out for absolute maximum clarity...)

From ab4el.com Mon Apr 25 12:50:53 1994

From: Randall Rhea <randall@informix.com>

Subject: Re: mfj 945-c versa tuner ii

Here is some basic information on antenna tuners. There are many mis-conceptions on what they do.

There are two things that an antenna tuner can do: 1) tune the antenna to resonance for your operating frequency, and 2) provide a 50-ohm match for the transmitter, so an SWR mis-match does not cause problems for the transmitter. Ideally, you want to do both. An automatic antenna tuner like an Icom AH-3 or the AGC Smartuner mounted at the antenna itself will do both; the tuner could be mounted at the base of a vertical, in the middle of a dipole, etc. The tuner will resonate the antenna AND provide the 50-ohm match.

If your antenna is connected to your transmitter via coax,

and your antenna tuner is at the rig (whether a manual tuner or an automatic tuner), then the tuner is only providing a 50-ohm match. The antenna itself could be horribly out-of-tune and radiating poorly; it could even be a dummy load. Nevertheless, the tuner allows for a 50-ohm match, so your SWR meter shows a 1:1 SWR. (Never assume that a 1:1 SWR means that you've got a good antenna.) Such an arrangement may be useful, particularly with mobile operation, since mobile whips may be resonant but may not provide a 50-ohm match.

If your tuner is mounted near the rig rather than at the antenna, and you want to resonate the antenna as well as provide a 50-ohm match, you need to use an end-fed wire connected directly to the tuner, or you need a dipole fed with parallel line. If you want to use a random-length dipole for several bands, you should feed it with parallel line.

=====

Randall Rhea	Informix Software, Inc.
Project Manager, MIS Sales/Marketing Systems	randall@informix.com

From ab4el.com Mon Apr 25 13:25:58 1994
Subject: Re: mfj 945-c versa tuner ii
From: "John F. Woods" <jfw@ksr.com>

> Here is some basic information on antenna tuners. There are many
> mis-conceptions on what they do.

Perhaps it was all misphrased, but this didn't seem quite right. What I think I will do is go and re-read "Reflections: Transmission Lines and Antennas" by Walt Maxwell tonight (hint to everyone: buy this book. Read it. Live it.), and see if I still have any arguments I want to make tomorrow.

However,

> If you want to use a random-length dipole for several bands, you should
> feed it with parallel line.

This is exactly what I do; something like 120-130 feet of wire, center-fed with (currently) about 20 feet of 450-ohm ladder line. However, if the wire really is close to a full wavelength on either side of center, it will be presenting a very high impedance (thousands of ohms, I think), which may be well outside the range matchable by the MFJ box; as a variable transformer, there is a limit to the range of impedances it can transform. (I guess I could try trimming the ladder line to a quarter-wavelength, hoping that the MFJ box can match low impedances more easily than high impedances; as we all know (right?) transmission lines also act as impedance

transformers, though they can only rotate an impedance around a constant-SWR circle.)

From ab4el.com Mon Apr 25 13:37:11 1994
From: Duane P Mantick <wb9omc@ecn.purdue.edu>
Subject: Re: mfj 945-c versa tuner ii

>
>
> I think they're not selling it anymore, but the MFJ-948 which seems to have
> the same description is \$129.95. I have the -D version (including 300W
> dummy load), and it has a low/high power setting. Assuming the low power
> setting is 0-30W (I can't find the blasted manual) it agrees with my Heathkit
> wattmeter at the 5W level. I've had fairly good results trying to match short
> random wires with it, but yesterday I was unable to tune up my new ``G5RV''
> dipole on 20m. However, it has just occurred to me that I probably have a
> worst-case antenna here: it's about 120-130 feet long, which is close to
> a multiple of a half-wavelength (in fact, it's probably two half-wavelengths
> on each side of the center). Or maybe I've just discovered that the tuner is
> a piece of junk. Who knows?
>
>
>

I've got one that is either a 948 or 949. I can't complain, as from the day I started using it my QSO count multiplied by about 4 times. Never let it be said that a good match isn't important, especially at lower power levels.

My experience with it is that the only things I haven't been able to get it to tune are things that have something "wrong" with them, like one that I miscalculated some measurements, etc.

Antenna matches are **not** (in most cases) guaranteed to match absolutely EVERYTHING. They will match up a lot of things. This isn't to say that a tuner can't be defective, either.....

But I like my MFJ tuner, it works like a champ, and has my SWR down so low that the reflected power needle (this one has the dual match-needle meter, BTW) barely moves most of the time and never moves some of the time. Of course, with only a few watts, the forward needle doesn't move much, either.... :-) :-)

Duane
wb9omc

From ab4el.com Wed May 4 08:53:20 1994
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: MFJ Kits

All,

I agree with Doug.. the MFJ portables DO make great kits.. I built the 30 meter CW rig as a test case.. the board is very clearly silk screened..about 99% of the connections are on the board.. so no jumper wires.. very easy to tune up-worked great the first time.

I would love to see the 20 meter SSB as a kit.. still one of my favorite new toys.

PS.. despite all the trouble I had (having) with my Radio Kit, 20 meter kit, during our QRP expedition.. actually talked to a guy on a 20 meter SSB radio kit.. think he said he was running 30 watts at first.. but then he quickly turned down to 5 watts.. he sounded fine.

72

Jeff, AC4HF

From ab4el.com Thu Apr 28 16:44:04 1994
From: jfw@ksr.com (John F. Woods)
Subject: MFJ tuners

After the recent mention of the "MFJ 946-C Versa Tuner II", I happened to take a closer look at my "MFJ-949D Versa Tuner II", and found some interesting things.

First, I may have found out why I was unable to match my random-length dipole: for balanced-line feed, you are supposed to short the WIRE ANTENNA standoff to one of the BALANCED LINE standoffs, hence my feedline wasn't really connected. Duh. That's what I get for misplacing the instructions (which I've since found).

More interestingly, I opened up the box and took a look at it (after remembering to sand off the enamel paint around the screw holes, answering a common complaint about MFJ construction; I also tightened the inductance selector switch, which was loose). The matching circuit topology is a T network, which the Handbook mentions can act as a high-pass filter under certain matching conditions (though as mentioned in Reflections, this is less of a problem than one might think). Of somewhat more concern, but possibly unavoidable, is the layout of the inductor in the circuit: it is vertical in the cabinet, grounded at the base and just under the lid at the top (shouldn't

open-air coils be kept away from metal surfaces for minimum loss?). The inductance selection is also done by grounding the taps, having the effect of shorting out most of the coil (which I was under the impression was a bad idea as well). Assuming these complaints are real and not just my misunderstandings, they could have done better (though it would have, perhaps, been hard; it's a big coil).

I was going to try to get a feeling for what ranges of impedances it would match, but the manual doesn't list inductances for the coil (and since it's bent into kind of a hexagon shape, it was too hard to estimate what its diameter is to use the standard approximation, to say nothing about the effects of the cabinet...).

I guess now I've got an excuse to go make a balanced QRP transmatch. At least then if it doesn't work, I'll know who to blame. ;-)

73, John, WB7EEL

From ab4el.com Tue Apr 26 15:01:03 1994
From: jason@persoft.persoft.com (Jason Penn)
Subject: My HW-8 Lives!

I had another little breakthrough with my HW-8 repair over the weekend. As you may recall, I bought it at a recent hamfest and it neither made RF or received anything. Last week I found a wiring error such that the TX RF was open circuit due to the loading capacitor being soldered to an unused lug on the band switch. After fixing that (and the mis-wired "output" meter) it was still deaf on receive. Well, after reaching the conclusion that this rig has ~~never~~ worked before I couldn't assume that there weren't more mistakes to be revealed. It turns out I found a lifted trace and solder bridge right in the MC1496 mixer area that shorted the LO to the mixer output (pins 1 to 9, I think). After repairing that, I have a working HW-8! The receiver seems good on 40m, fair to weak on 80m, and I don't think 20m and 15m are completely debugged, yet.

I really wonder how many time this particular rig has changed hands since the original kit builder or long it has sat in a closet or box neglected for want of a little attention...

See you at Dayton!

P.S. What do any of you use for headphones on a HW-8? Would Hi-Z headphones sound any better than the 8 ohm 'phones I am using?

--

Jason F. Penn N9RPT | Persoft, Inc. | jason@persoft.com
Whenever I want to find something, it's always in the last place I look.

From ab4el.com Wed Apr 27 12:11:43 1994
From: jgordon@thevax.corp.novatel.ca (CT & TAC for WAP CE...enough acronyms?)
Subject: Re: My HW-8 Lives!

Good to hear that you got the HW-8 up and sorta running! Regarding the headphones I use an old pair of high impedance phones passed on to me from my father. They make a SIZEABLE difference in the audio performance when compaired with a regular set of 8 ohm phones.

Good luck with debugging the rest of the HW-8!

73's de John VE6RJG

From ab4el.com Thu Apr 28 00:16:05 1994
From: jgordon@thevax.corp.novatel.ca (CT & TAC for WAP CE...enough acronyms?)
Subject: Re: My HW-8 Lives!

Good to hear that you got the HW-8 up and sorta running! Regarding the headphones I use an old pair of high impedance phones passed on to me from my father. They make a SIZEABLE difference in the audio performance when compaired with a regular set of 8 ohm phones.

Good luck with debugging the rest of the HW-8!

73's de John VE6RJG

From ab4el.com Tue May 3 10:43:45 1994
From: jpo@acd4.acd.com (Jim Osburn)
Subject: My Trip To Dayton

Every year the Wabash Valley Amateur Radio Association takes a bus on Saturday to Dayton. It's fun to go with 40 of your buddies. The bus lets us off at the front door, the bus is close by all day and has a large cargo capacity. The only way to make it better is if it stayed all weekend.

This year at Dayton I attended the QRP forum on Saturday. I enjoyed the talks given by AA2U very much.

I also attended some of the VHF/UHF forum. I found the talks about backpacking and spread spectrum very interesting.

I purchased a set of iambic paddles from Kent Keys. I assembled them and

got on the air with them as soon as I got home Saturday night. They're the best paddles I own, my Benchers come in second and my Nye paddles come in last. The Kent Keys paddles require noticably less effort to use than the others. They also look good, lots of shiney brass. Does anyone have any suggestions on how to keep them shiney?

I purchased a direct conversion receiver kit from Ten-Tec. I hope to assemble it this weekend. I told my buddies on the bus that I bought a brand new Ten-Tec rig for \$27.00. One of the guys on the bus said Ten-Tec used to make kits years ago and was glad to hear they were doing it again.

I purchased an A&A engineering frequency counter kit from a distributor I think named Amateur Radio Works (ARW). The kit is described in the 1994 ARRL Handbook. The Ten-Tec direct conversion receiver has a frequency counter output but I might need a buffer between it and the counter. I think the counter and the receiver will fit in the plastic pencil box I want to use as an enclosure. I might need to build a PCB shield box around the counter.

I didn't go outside except to take stuff back to the bus. I would have checked out the flea market if it hadn't been raining. I crushed two kids and one little old lady trying to walk around inside, not really, but it was crowded.

Some of the guys on the bus did the flea market anyway. They got soaked (both meanings of this might be correct).

I renewed my QRP ARCI membership and joined G-QRP.

Hams from our area win prizes at Dayton. The rumor is that one of our local club members won a handheld, he wasn't on the bus so I can't confirm the rumor. In the past one of our local club members won two years in a row. Trouble is, it wasn't me and nobody has yet called me to let me know that I won the grand prize.

73,

Jim, WD9EYB

From ab4el.com Tue May 3 11:30:38 1994
From: Duane P Mantick <wb9omc@ecn.purdue.edu>
Subject: Re: My Trip To Dayton

>
> Hams from our area win prizes at Dayton. The rumor is that one of our
> local club members won a handheld, he wasn't on the bus so I can't confirm
> the rumor. In the past one of our local club members won two years in

> a row. Trouble is, it wasn't me and nobody has yet called me to let
> me know that I won the grand prize.
>
> 73,
>
> Jim, WD9EYB
>

I was listening to the talk-out on my way back to Indiana, and the
guy that won the grand prize did not list a callsign. (I hate it when
that happens) :-)

Duane
WB9OMC

p.s. Don't feel too bad, Jim, I've never won squat at Dayton in about 8
tries.....

From ab4el.com Tue May 3 15:43:24 1994
From: jpo@acd4.acd.com (Jim Osburn)
Subject: Re: My Trip To Dayton

>
> Duane
> WB9OMC
>
> p.s. Don't feel too bad, Jim, I've never won squat at Dayton in about 8
> tries.....
>
>

Duane,

I've got you beat. I haven't won since 1975, the first year I attended.
Maybe my 20th trip will be the one.

73,

Jim

From ab4el.com Sat Apr 23 14:45:53 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: NC40 Parts mistake

I posted a list of needed parts for the NC40 partial kit and Howie, WB2CPU,
quickly spotted a mistake. The line that says 6 - 4.915 MHz crystals matched
to +/- 20 KHz, should say matched to +/- 20 Hz. Thanks to Howie for spotting

the mistake. (I tell my students in high school that I was checking to see if they were paying attention when I make an obvious mistake, but can't do that here, I just messed up.)

SEE YOU IN DAYTON!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

72, Doug, KI6DS

From ab4el.com Thu Apr 28 01:36:30 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: NE 40-40 Kit Review

Guys, I just finished the NE QRP Club Project #2, the 30-40 rig. It stands for 30 meters for forty dollars. My opinion? The NE Club has a winner. I will let you in on a secret, the rig is going to sell out fast. They did a run of 50, and it sold out so fast it made their heads swim. So, they did another run of 50. These are not sold out yet. But they soon will be. Remember the NorCal 40 and how you missed out on it? This is the same song, second verse. I am so impressed that I just ordered another kit for 40 meters. I want to compare it to the NorCal 40 and my other 40 meter rigs, besides, I like to build.

The kit sells for 40 dollars, but you need to add \$1.95 shipping and handling. Send your orders to:

Paul Kranz, W1CFI
26 Mettacomett Path
Harvard, MA 01451
(Note be sure to specify the band, 30 or 40 meters)

Here is what you get:

- *VFO tuned Superhet
 - 40 KHz coverage
 - low cost varicap
- *1.5 Watts output
- *Full break-in (QSK)
- *(RIT is a promised add on mod)
- *Drilled & tinned PC board
- *All on board parts and wire
- *Matched filter crystals
- *Detailed layout drawings
- *Assembly instructions
- *Available on 30 and 40 meters

You supply:

- *Connectors and controls

- *Enclosure
- *hook up wire
- *labor

My kit came yesterday. Oh my god, just what I need a kit right as I am getting ready for Dayton. Hmn, I do have this evening, I think I'll just inventory the parts. As soon as I opened the package, the first thing that I saw was this GREAT instruction manual. I thought Wayne Burdick had moved to New England again. This manual is as good as the NorCal 40 manual, and I consider that one to be the best that I have ever seen with a kit. Clear instructions, examples on how to wind a toroid, and parts identification.

I read it from cover to cover, and there are 19 pages. It includes the following:

- * General information on what you should know about building a kit.
- * How to wind toroids.
- * Materials list, instructions on how to "unpack" the kit.
- * Parts list, including very detailed identification of parts.
- * Theory of Operation (2 pages)
- * Schematic
- * Parts Layout
- * Building Instructions
- * Recommended Assembly Sequence
- * Wiring the controls and connectors
- * Suggested layout for enclosure
- * Alignment
- * Troubleshooting
- * NE Club members offering technical support
- * Troubleshooting schematic with voltages

The rig was designed by Dave Benson, NN1G, who has done an outstanding job with this kit. My impression of the kit is that it is excellent. I give it 3 stars, with only a few minor problems. Here they are:

1. Parts were missing from the kit. 1 diode, 9 capacitors, and 3 trim caps. But, you have to remember that this is a club kit that uses volunteer labor. It is a great deal for the price, and the club will happily send you the missing parts as soon as you let them know. People make mistakes, and none of them are intentional. If you are missing parts, just let them know, but be kind, they are volunteers helping you out.
2. The pc board is not silk screened. I think it should be. They have a great parts layout picture. Should have used it for a silk screen on the boards.
3. There are a couple of mistakes on the parts pictorial. Diode 2 is called diode 4, and they left off two .01uF bypass caps. One goes between C26 and a 100 ohm resistor, and 1 goes between pin 1 of U3

and a 470 ohm resistor. The holes are drilled, the parts are listed on the schematic, they just didn't get on the parts layout.

Other than the above, I think the kit is great. The manual is the best part, really well done. It worked right off the bat for me, and that is the real test. Guys, if I can build it, you can. I ought to charge NorCal and NE QRP clubs a testing fee. (Joke). I am the original build it and it won't work guy. Yet, this one worked in spite of me. Great job Dave Benson and the NE QRP club. Take my advice and order one today. If you see them at Dayton, place your order there. I highly recommend it. Great fun!!

Disclaimer: I am a member (#182) of NE QRP club. But, I live in California and am not an active local member. No one requested this review, it was done for informational purposes only. It is my opinion and my opinion alone. I do not have any financial interest in NE QRP Club, or the kit described.

72, Doug, KI6DS

From ab4el.com Mon Apr 25 13:47:28 1994
From: jpo@acd4.acd.com (Jim Osburn)
Subject: Need MFJ Audio Mod

Could someone please email to me the modification to improve the audio in the MFJ 90xx rigs.

Thanks,

Jim, WD9EYB

From ab4el.com Sun May 1 11:59:01 1994
From: Jack Fleming <oolon@eskimo.com>
Subject: Newsletter Editors' Mail List

```
*****
*
*           Introducing the
*   Amateur Radio Newsletter Editors' Reflector
*
*
*           radio_editors@eskimo.com
*
*
*   Information, subscriptions, unsubscriptions, etc. to:
*
*           radio_editors-request@eskimo.com
*
```

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*
*           Jack Fleming, WA0RJY
*           oolon@eskimo.com
*
*           Founded April 1994
*
*****

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Just when you thought your mailbox was totally full - another reflector! This notice is to introduce the Amateur Radio Newsletter Editors' Reflector!

This mail list is designed to allow editors of amateur radio newsletters to exchange information and ideas.

The list is ONLY open to newsletter editors!

I hope this list will become a forum for discussion among newsletter editors who have similar interests and difficulties - but previously had few avenues for exchange.

What you should expect to see on the editor reflector:

Copies of other editors' newsletters in ascii format.

Articles that you might want to publish in your newsletter (appropriately credited to the author and publication of course!) - again in ascii format.

Calls for help from editors with newsletter related problems.

Clever ideas that editors have used successfully.

Small one or two paragraph items that can be used as "fillers" to complete a page.

What you should not expect to see on the editor reflector:

Requests for QSL routes...

Discussions of the DXCC eligibility rules...

Technical questions regarding forward gain of yagis vs. quads...

***** WARNING! *****

I hope to see some VERY LARGE MESSAGES on this mailing list. If you pay for reading your electronic mail by the byte or by the letter or by the word - you might NOT want to subscribe! A ten page newsletter can result in an ascii file of 60k or more! Be sure to check on how you pay for your mail service to avoid nasty surprises!

***** HOW TO SUBSCRIBE *****

Please send any subscribe/unsubscribe requests to radio_editors-request@eskimo.com instead of the actual reflector address.

To JOIN the list please send a message to:

radio_editors-request@eskimo.com

and include the word "subscribe", your name and call, the club or organization that you are associated with, the name of the newsletter that you publish, it's frequency, and the average number of issues you print. My message would read:

Subscribe
Jack Fleming, WA0RJY
Western Washington DX Club
Totem Tabloid
Monthly
240 issues

NOTE: Remember, if you are not an editor of a newsletter or magazine, then you are not eligible for membership in this list! Sorry!

Questions or ideas? Please pass them along to Jack Fleming, WA0RJY, oolon@eskimo.com. Thanks and 73.

Jack Fleming, WA0RJY oolon@eskimo.com
Seattle, WA DON'T PANIC!

From ab4el.com Tue Apr 26 21:00:08 1994

From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: NN1G kit for contest

Gang,

who won the kit that i offered up to the most internet guys worked during the contest? haven't hear anyone come forward to claim same.

inquiring minds wanna know. i have one for 30M in house, otherwise 40 or 20M version can be shipped from MT.

73

Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Mon Apr 25 13:53:46 1994
From: jfw@ksr.com (John F. Woods)
Subject: NN1G troubles?

I finally got my 20m NN1G through the alignment process, and I've got a few odd things with it.

First, I had trouble tuning the transmitter BFO to the same frequency as the receiver BFO (using a freq. counter, rather than going through the "guess a sideband" ritual :-); using the circuit topology in the NN1G, should I add turns to or remove them from the inductor in the VXO circuit to raise the frequency?

Next, I seem to be getting a hair over 5 watts out into a dummy load, which is much more than I expected (isn't that going to fry the output transistor, if it's real?); could this be something really awful, like the final PA oscillating? (I don't have a spectrum analyzer to check.)

It might be chirping on key-down (or it might be my WWII-era SW receiver pulling on the extremely strong signal). The local oscillator should probably have had a buffer amplifier (the Radiokit QRP-20 I put together a few years ago added a buffer to the VFO to avoid pulling in a very similar circuit); that certainly would have helped in setting the frequency, since my frequency meter disturbs it a few hundred hertz.

The KA7QJY package of the kit included pads on the transmitter circuit board for extra resistors across the base, and collector choke, of the

PA transistor; how does one know if those resistors are required? (I put them in, assuming that they'd be relatively harmless if installed needlessly.)

Finally, when I try to transmit into a badly mismatched load (see other thread :-), at some settings of my transmatch the nice pure sidetone goes from being a clean tone to what sounds like pure noise. What's causing this? (I sort of assume it's oscillations in the PA, probably caused by looking into a really stupid load impedance, in which case the solution is probably "well, don't do that!".)

Even more finally, was 20m just about dead (at least in the Northeast) last Sunday around 5PM ET, or is this rig deaf?

Thanks, and see you (I hope) on 20m,
John, WB7EEL

From ab4el.com Mon Apr 25 21:23:59 1994
From: rohrwerk@holonet.net
Subject: NN1G troubles?

On 04-25-94 jfw@ksr.com wrote to QRP@Think.COM:

> Finally, when I try to transmit into a badly mismatched load (see
> other thread :-), at some settings of my transmatch the nice pure
> sidetone goes from being a clean tone to what sounds like pure noise.
> What's causing this? (I sort of assume it's oscillations in the PA,
> probably caused by looking into a really stupid load impedance, in
> which case the solution is probably "well, don't do that!".)

Could just be RF getting into the sidetone oscillator. I found that happened in my little homebrew 5 watt PA also.

Yes, "don't do that!"

```
* John Seboldt...Mpls, MN...As a ham, K0JD...as a human...well,... *
|                               rohrwerk@holonet.net                     |
*      "Aaaaaahhh.... BAAAAACH!" -- Radar O'Reilly                      *
```

-> Alice4Mac 2.3 E QWK Eval:05Mar94

From ab4el.com Tue Apr 26 09:25:31 1994
Subject: Re: NN1G troubles?
From: "John F. Woods" <jfw@ksr.com>

> Could just be RF getting into the sidetone oscillator. I found that happened
> in my little homebrew 5 watt PA also.

The sidetone in the NN1G is done by having the receiver sample the transmitted signal (the way it should be :-).

From ab4el.com Mon May 2 17:58:44 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: NW Club Member(s)

Any members of the NW club that can relay a message to your president?

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Mon Apr 25 14:01:03 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: OHR WM-2

Gang,

Oak Hills Research, 20879 Madison St., Big Rapids, MI 49307 "QRP Headquarters" has come out with yet another wattmeter called the WM-2. This one is just like the other wattmeter the WM-1 in price but has three scales for power levels of 200, 20, and 2 watts. This should provide those who run higher than 5 watts for occasions when the bands won't support QRP operation an excellent meter for monitoring antenna operation, etc.

This meter is just announced and won't be available for shipping for 3 or 4 weeks. Meter scales are being produced. By the way, the WM-1 and WM-2 are good for 1.8MHz to 54MHz.

FYI de K5FO soon to be /8

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Mon Apr 25 14:02:49 1994

From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: OHR WM-2

oops. the assembled model will contain a battery already
mounted inside. Also, the battery drain is 1.2mA when on.

Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Tue Apr 26 12:42:06 1994
From: mvjff@mvubr.att.com (James M Fitton +1 508 960 2577)
Subject: Participation Dayton

If you are not currently participating in the activities
at Dayton wish to, please let me know.

It is always fun to be part of the organizing team.

Activities range from bringing poster material for making
up posters for the hospitality suite, bring and maintaining
a sign-up (attendance) sheet, help organize the beer & pizza
party, provide B&W photos, and/or write-ups, of the gang,
booth, and forums and distribute to QRP clubs/newsletters.

Pls notify me before Thurs.

See you at Dayton

72 Jim W1FMR

From ab4el.com Thu Apr 28 11:26:02 1994
From: randy kaufman <krandy@hubcap.clemson.edu>
Subject: Parts

After perusing the junk-box this weekend, I have uncovered some parts that
may be of use to the builders out in net-land. Look through the list, and

see if there's anything of interest:

RF chokes, values in uH, 4.6, 6, 16, 40, 250, 500, 750, 800 (just a few)
The 4.6 are moulded, the rest are regular wound.
I'll let 'em go for a quarter each, or 5 for \$1.

Tiny speakers, surplus from cell-phones. About 1 1/16" dia. x 1/4" thick.
Piezo, and impedance is several K ohms. Good sound for those camping rigs,
as this little speaker is impervious to water. 50 cents each.

100pF, ceramic "dog-bone" capacitors. Don't know if these are useful, but
I gotta bunch of 'em! 10 for \$1.

That's the list for now, but I'll keep looking (digging) for anything else.
This stuff is small, so \$2 should cover postage. If you have any questions,
feel free to email. Oh yeah, personal checks are fine.

Randy Kaufman WD4LUJ
476 Patterson St.
Central, SC 29630

From ab4el.com Tue May 3 11:46:41 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Prices

Gang,

I'm writing my experiences in Dayton, but just had a break in
a class that I'm doing this week, so saw one posting that I
had to add to.

Sunday, during the prize drawings I was sitting with the famous
Jim Fitton, W1FMR. We both had late planes.

Next year, if you leave before the drawings MAKE SURE to leave
you prize tickets with someone.

I was getting nervous as the drawing was winding down, so I asked
Jim if he thought we otta leave before the rush. He said maybe
but then again why don't we wait. I said OK. Sure enough, Jim
won a 2M handheld, one of the really small one's. Good show Jim.
My ticket was one off from his. Oh, well there is next year. :-)
I will be back. I'm hooked.

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Thu Apr 28 18:14:02 1994
From: Jeffrey Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: Project 16: Long-wire antenna tuner

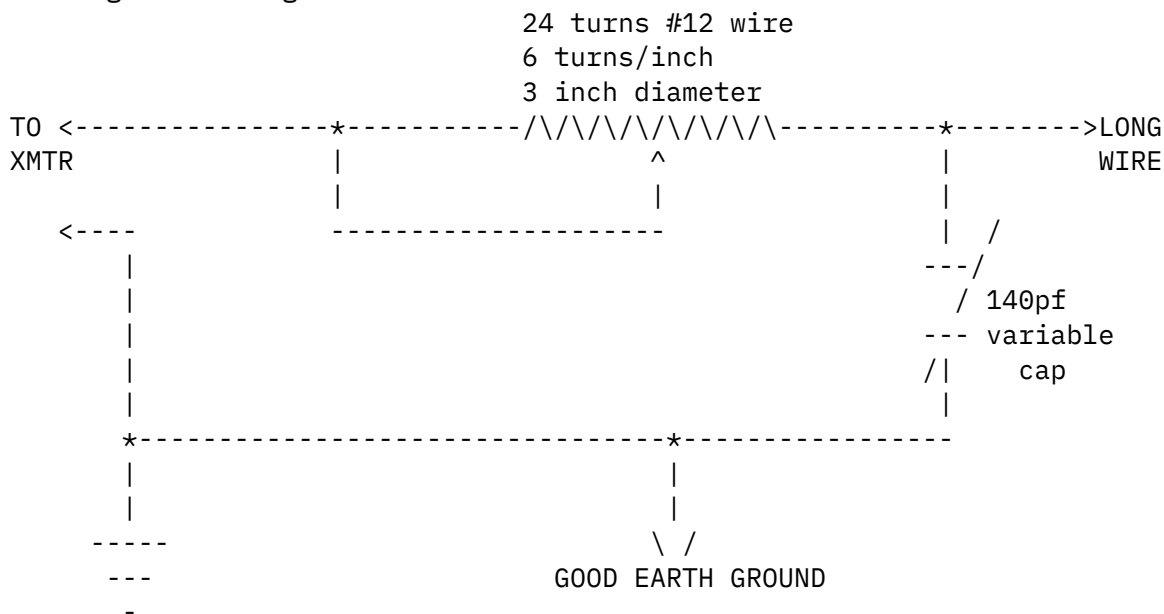
Project 16: Long-Wire Antenna Coupler

The following configuration uses an alligator clip and a length of hookup wire to vary the inductance. by trial and error you pick the 'tap' by choosing any single coil turn. Before very long you'll find where the the best tap is for your particular xmt'g freq.

For tuneup simply hold an NE-2 neon bulb somewhere along the antenna (after the coupler), and tune C1 for max brilliance; if the NE-2 won't fire (QRP) use a field strength meter.

Run 52 ohm coax from xmtr to the coupler so that the antenna ``begins'' after the tuner.

Run a good earth ground!



Taken from 140 HAM RADIO PROJECTS FOR NOVICE AND TECHNICIAN (1968) by Bert Simon, W2UUN.

Jeff NH6IL

From ab4el.com Fri Apr 29 08:45:56 1994

Subject: Re: Project 16: Long-wire antenna tuner
From: "John F. Woods" <jfw@ksr.com>

> For tuneup simply hold an NE-2 neon bulb somewhere along the antenna (after
> the coupler), and tune C1 for max brilliance; if the NE-2 won't fire (QRP)
> use a field strength meter.

An old QRO friend of mine (100W :-) used to have a row of NE-2s beside the coil of his transmatch. Watching the pattern change as he tuned was a lot of fun.

From ab4el.com Mon Apr 25 16:55:39 1994
From: Clark Fishman (FSAC-FCD) <cfishman@PICA.ARMY.MIL>
Subject: QRP lus

I got the manuel on the QRP Plus....small radio with lot's of stuff....anybody know if they will be at Dayton?????

WA2UNN

From ab4el.com Tue May 3 12:40:39 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: QRP Afield

NOTE: There will be a trophy for first place for this six hour test.

dit dit

P.S. be there and be square.

Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Fri Apr 29 13:11:13 1994
From: "CHESTER BOWLES" <bowles.chester@a1.aimhi.mko.MTS.dec.com>
Subject: QRP AFIELD-1994

1

[This message is converted from WPS-PLUS to ASCII]

Hi gang,

Jim, W1FMR, is at Dayton and will be making the "official" announcement

about the new contest being sponsored by the NE-QRP club. The contest is called QRP AFIELD--1994. Here are the rules in ASCII format--not pretty, but you get the idea.

Jim has a much better looking copy of the rules. Also, the rules and entry form will be published in the next issue of _72_ magazine.

Now, all we need is decent weather and good propagation. Hope it turns out to be a fun event and that many of you will be able to participate.

Enjoy,
Chet, AA1EX

----- Forwarded message

Posted: Fri, 29 Apr 94 04:00:01 -0700
Date: Fri, 15 Apr 94 14:06:01 -0700
From: "CHESTER BOWLES" <"bowles.chester%Organization=DMO
WKST%Telephone=603-884-3752"@a1.aimhi.mko>
Subject: QRP AFIELD--1994

1

[This message is converted from WPS-PLUS to ASCII]

QRP AFIELD-1994

ARP AFIELD-1994 is sponsored by the QRP Club of New England and is designed to encourage QRP enthusiasts to field-test their radio equipment using temporary antennas and non-commercial power sources.

Date/Time

Saturday, September 17, 1994 from 1600Z to 2200Z.

Exchange

QRP-NE Members: RST, State/Prov/Country, QRP-NE #
Non-Members: RST, State/Prov/Country, Power Output

Definitions

Permanent Location - Any location using commercial power AND/OR
permanently installed antennas.
Field Location - Any location using battery/solar/natural
power AND temporary antennas.
Low Power QRP - Less than one watt output.
High Power QRP - 1 to 5 watts output.

Scoring - (CW Only)

1 point for each contact from a permanent location using high power QRP.

2 points for each contact from a permanent location using low power QRP.

4 points for each contact from a temporary location using high power QRP.

8 points for each contact from a temporary location using low power QRP.

Note: All contest contacts MUST be made using the same location and power output.

Multipliers

One point for each state, province or country worked. Multipliers may be counted only once regardless of band worked.

Awards and Results

Certificates will be given to the ten stations with the highest point totals. Complete results will be printed in 72 magazine. Results will also be available by enclosing a #10 SASE with the contest submission.

Address

Mail contest logs and entry forms to:

Chester (Chet) Bowles, AA1EX

RFD 2, Box 335L

Sharon, NH 03458

QRP AFIELD-1994

Entry Form

Name_____ Call_____

Address_____ QRP-NE # _____

zip

Total number of contacts _____

Points per contact (1) X _____

Total = _____

Number multipliers worked (2) X _____

FINAL SCORE = _____

(1) Points per contact:

1 point for each contact from a permanent location using high power QRP.

2 points for each contact from a permanent location using low

4 points for each contact from a temporary location using high power QRP.

8 points for each contact from a temporary location using low power QRP.

(2) Multipliers: One point for each state, province or country worked. Multipliers may be counted only once regardless of band worked.

Transmitter/Xceiver _____

Receiver _____ Power Output _____

Antenna _____ Power Source _____

Location _____

Comments _____

Submit logs and dupe sheets to: Chester (Chet) Bowles, AA1EX

RFD 2, Box 335L

Sharon, NH 03458

P.S. Please include photographs and pictures with logs if you wish. We will put together a collage for display at flea markets and club presentations. Pictures may also be used in publications, so please make sure your name and call are written on the back of the picture.

----- End of Forwarded message

From ab4el.com Mon May 2 16:21:54 1994

From: Bruce Walker <bruce@Think.COM>
Subject: QRP ARCI Party Prize

Hello again everybody! Hope you all had fun in the rain at Dayton :-)
I didn't make it, but I did send a personal representative (Ed, WA2SCA) who met at least a few of you, and who was kind enough to bring me back a Kent iambic key kit. He said the flea market conditions were awful because of the WX (or maybe he just said that because the rig I gave him to sell didn't :-).

Anyway, if you remember, Chuck promised a prize to the Internet QRP Club (that's us!) member who worked the most Internet QRP Club members during the ARCI Spring QSO party. I told Chuck I would compile a list of members who operated during the contest. Based on articles you all wrote about your experiences, plus those of you who told Chuck before the contest that you would be operating, this is the current list of qualifying calls (in ASCII order):

AA1EX AA8MD AC4HF AC4QO DL1SDZ K5FO KA2UPW KB5RUF KB7TCY KB9FKO KD4YRN
KF2JH KI6DS KR8L KT3A KU7Y N1PBT N2ALE N2JGU N3PFF N4AOX N6ULU N8ET N8HSC
NR3Z NW00 NX1K VE2KN VE5VA VE6GK VO1DRB W1FMR W5TFB W6RCL WA4VQD WB2CPU
WB4TPW WB4ZKA WB7EEL WB8RUQ WD9EYB WO7T WT1M

If you worked anyone during the contest, and you're call isn't here, please send me mail by the end of the day Wednesday. I will announce the final list on Thursday, and you can then send in your results (not to the whole list, please!).

--bruce WT1M

From ab4el.com Thu May 5 17:35:42 1994
From: Bruce Walker <bruce@Think.COM>
Subject: QRP ARCI Party Prize

Date: Tue, 03 May 1994 08:47:49 -0500 (CDT)
From: "JEFF M. GOLD" <JMG@ntech.edu>

...
Didn't win the prize, but had a good time.

Jeff

Well, you beat me...I had 7 internetters in 36 contacts. Quite a large percentage, actually; you had 9 in 65. Are 10-20% of active QRPers on this list, or does this list just give all of us enough mutual enthusiasm to have a high concentration of participation?

--bruce WT1M

From ab4el.com Mon May 2 08:19:57 1994
From: jimn0oct@aol.com
Subject: qrp crystals

Hi y'all. I;m new here, but have been reading for awhile.
In response to:

-I'm building a little 40m VXO transmitter from _W1FB's Design -Notebook_ as
-a starter QRP building project. Is 7040 kHz a good choice for the -crystal,
-considering that I can't afford more than one or maybe two crystals?

I've found that local electronics shops, Digikey, Newark etc. sell little HC
49 crystals with a freq around 7.020 that are dirt cheap. Can;t be bent as
much (maybe) as an HC 6 type, but make a good extra crystal because of the
price!

73 de JimN0OCT@aol.com

ENTROPY AIN'T WHAT IT USED TO BE!

From ab4el.com Fri May 6 18:50:00 1994
From: Stephen Trier <sct@po.cwru.edu>
Subject: QRP dummy loads

I'm definitely going to get those resistors and build a dummy load. Ten-Tec
may sell one for cheap, but I think I'll have more fun making one myself. :-)
I'll buy Ten-Tec's later if I feel like it or want something nicer. Thanks
for the pointers, John and Bob!

Stephen

--

Stephen Trier
sct@po.cwru.edu
KG8IH

From ab4el.com Tue Apr 26 11:48:21 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: QRP Plus

Gang,

I know someone on this net has a QRP Plus xcvr. I'd like for you to verify the following.

I had one in my possession for a week. I sent it back for several reasons.

1. It was not complete, i.e. the keyer was not available, though the rig was advertised as having one. No documentation was given as to when it would be ready.
2. There were serious problems with reception of WWV on 5, 10, and 15 MHz. The internal osc(s) were generating too much garbage and for a general coverage receiver this was unacceptable.
3. I went through only the 80 and 40M ham bands, just to minimize my time at doing this, and listed all the birdies and their relative signal strengths. There were too many birdies from 1.8 to 30MHz to even consider listing all of them and their strengths.

A +0 means signal heard, but could PROBABLY hear a weak signal on the air. It would be a bother though.

A +1 means signal heard and strong enough to be a real bother for a QSO on the air.

A +3 to +4 means forget about having a QSO on this frequency or near it.

All this done with 50 ohm dummy load on BNC connector to xcvr.

80M

3.50000	+1
3.5020	+1
3.5040	+1
3.5060, 3.5080, 3.5100	+1
3.5235	+4
3.5710	+3
3.5811	+4
3.8383	+2
3.8457	+6
3.9052	+1
4.0000	+3

40M

7.0785	+0
7.1426	+5

7.1624, 7.1977, 7.2515 +1
7.2829, 7.2865, 7.2885, 7.2905, 7.2925, 7.2945, 7.2965, 7.2985 +0

These are all the birdies that I heard with filter set at 1.2 KHz.

Good news, they were prompt to refund my money on my plastic card. We'll see how their demo unit at Dayton does, if they are there. I'll bring this list with me for verification that it is on all their rigs.

I'd be interested in what others have found with this rig and has the keyer mods been delivered yet.

dit dit
Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Wed Apr 27 10:53:17 1994
From: Dave Finley <dfinley@aoc.nrao.edu>
Subject: Re: QRP Plus

Hello:

In response to Chuck's comments on the QRP Plus, here are my observations. I'll start with the usual disclaimer that I have no involvement or interest in Index Labs -- I'm just a customer.

1. Chuck is correct -- the keyer is not yet available. I had talked with Bruce Franklin of Index Labs prior to my purchase, so I knew this prior to buying. I haven't talked with Bruce recently, but did hear from someone else that, as of a couple of weeks ago, he said he was getting close to finishing the code implementing the keyer and some other additional features which have not been advertised.
2. The receiver IS general coverage, but it does NOT have an AM detector. You must receive AM as SSB, which makes things touchy. I have found it acceptable for listening to the solar-terrestrial conditions on WWV and to the news on the BBC, about the only things for which I use general coverage. The general-coverage receive ability was NOT advertised on the flyer I saw, and I would have bought the rig without this feature. I took it as-is as an unexpected bonus.

3. The birdies. I went through Chuck's list, using the same setup -- a 50-ohm dummy load on the rear BNC connector. On both 80 and 40 meters, I found all but two of the listed birdies on each band. Some of them were at slightly different frequencies, but the same pattern was present. Chuck, maybe your ears are better than mine -- most of your +1s I would definitely list as +0, and many of the +0s I could barely detect. The stronger ones definitely would impede a QSO on that frequency, but the filters would, in my opinion, allow a QSO on a very nearby frequency.

Rig evaluations are always somewhat subjective. I looked at the QRP Plus with different expectations than those with which I would look at an Icom, for example. I bought this rig for the purpose of assembling a "briefcase station" to take on weekends in the wilderness or possibly on long business trips. I couldn't do this with a QRO rig because of the power consumption. A monobander would be completely unacceptable to me -- I want to be able to operate at any time of day or season.

I looked at the capability I was getting for the money. The power-hungry riceboxes run \$100 to \$300 or more PER BAND. The major QRP rigs, both kit and assembled, seem to run at about \$165 or thereabouts per band. By contrast, the QRP Plus costs \$67 per band. At about 41 percent of the cost per band of other QRP rigs, I expected some compromises. For my purposes, they were compromises with which I can live. After a couple of months with the rig, I'm still happy. I'm not going to sell my Icom -- the QRP Plus is definitely a second rig, but one that serves that purpose quite nicely for me. Again, the all-band coverage was extremely important to me.

73,

Dave, N1IRZ
dfinley@nrao.edu

From ab4el.com Wed Apr 27 12:23:16 1994
From: N8ET@delphi.com
Subject: QRP Plus and other rigs at Dayton

Hello all:

They will not be there as far as I know - BUT - he did send a rig to G3RJV for review and for display at the G-QRP/Kanga Booth (table 241) and at the QRP suite. It was shipped to my QTH - arrived yesterday- and will be at Dayton. He also sent a box of color glossy fliers for distribution. We fired it up last nite on 40 and made a few qso's on CW with it. George has threatened to try ot on SSB tonight - so look for us on the QRP frequencies this evening - probably 40 will be the most likely band, but if 20 is open

will be there. G3RJV/W8 will be the call....

It will be available for use in the suite Thurs/Fri/Sat.....

They also brought several other new kits from Hands and from G8SEQ.... They will also be operational at the suite in the evenings....

C U all there - we are aiming to be there by noon Thursday.... We have a sign-up sheet ready to go at the Hotel when we arrive...

72/73 - Bill - N8ET

From ab4el.com Thu Apr 28 00:51:29 1994

From: N8ET@delphi.com

Subject: QRP Plus and other rigs at Dayton

Hello all:

They will not be there as far as I know - BUT - he did send a rig to G3RJV for review and for display at the G-QRP/Kanga Booth (table 241) and at the QRP suite. It was shipped to my QTH - arrived yesterday- and will be at Dayton. He also sent a box of color glossy fliers for distribution. We fired it up last nite on 40 and made a few qso's on CW with it. George has threatened to try ot on SSB tonight - so look for us on the QRP frequencies this evening - probably 40 will be the most likely band, but if 20 is open will be there. G3RJV/W8 will be the call....

It will be available for use in the suite Thurs/Fri/Sat.....

They also brought several other new kits from Hands and from G8SEQ.... They will also be operational at the suite in the evenings....

C U all there - we are aiming to be there by noon Thursday.... We have a sign-up sheet ready to go at the Hotel when we arrive...

72/73 - Bill - N8ET

From ab4el.com Wed May 4 20:58:47 1994

From: SLVLV@cc.usu.edu

Subject: QRP QSO #1

Hey Gang,

I'm hooked! After reading this mailing list for a few months, and getting most of the bugs worked out of my station, I decided to turn back the power on my HW-101 and try a little qrp. I was able to talk to a station abt 800 miles away in Kansas on 1 watt. I know that people do this and more all the time, but it still seems amazing to me. 1 watt on 40 meters to a 1/4 wave wire sloping out my 5th floor window! Now I need to get a kit or

Aaron KB7KBM
slvlv@cc.usu.edu

From time to time, the subject of whether to create a QRP newsgroup (as opposed to mailing list) has come up (usually in response to too much volume on the list; I haven't heard it since the digest has been available). I just posted a response to a query about QRP newsgroup in the rec.radio.amateur.homebrew group, and I thought I would share it with the list...

```
--bruce WT1M
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Two months ago I sent in my dues to the subject organization. Since then I have heard nothing. Not even a postcard to acknowledge receipt. Is this normal? Isn't this a little rude?

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]**[]**

Grover Cleveland - President, The Henness Pass Rwy. & Telegraph Co. (H0n3)
Internet: groverc@gvgadg.gvg.tek.com Radio: WT6P@KE6LW.#NOCAL.ca.us.na
Voice: (916) 478-3153 DoD:7388 Fax: (916) 478-3831

From ab4el.com Wed May 4 14:18:10 1994
From: teda@meaddata.com (Ted Albert)
Subject: Re: QRPARCI

I was told Saturday at Dayton that it might be late May or June before they would catch-up with my new membership. You may be in the same boat.

73 de Ted Albert, KF8EE

From ab4el.com Thu May 5 17:13:03 1994
From: Bruce Walker <bruce@Think.COM>
Subject: QSO party participation list

Here is the final list of calls which qualify for the K5F0 prize, which will be awarded to the person on this list who worked the most number of calls on this list. The score is the total number of different calls from this list worked; working someone on multiple bands does not count multiple times.

AA1EX AC4HF AC4QO DL1SDZ K5F0 KA2UPW KB5RUF KB7TCY KB9FKO KD4YRN
KF2JH KI6DS KR8L KT3A KU7Y N1IRZ N1PBT N2ALE N2JGU N3PFF N4AOX N6ULU N8ET
N8HSC NR3Z NW00 NX1K VE2KN VE5VA VE6GK VO1DRB W1FMR W5TFB W6RCL WA4VQD
WB2CPU WB4TPW WB4ZKA WB7EEL WB8RUQ WD9EYB WO7T WT1M

Please send your claimed score and list of calls to Chuck (adams@chuck.dallas.sgi.com), not to the whole list. I'll be on vacation tomorrow, so don't send them to me, either! Chuck will announce the prize next week.

--bruce WT1M

From ab4el.com Fri May 6 20:08:02 1994
From: BHOWLE@delphi.com
Subject: RadioKit 40 For Sale

Will sell my RadioKit 40 meter qrp transceiver - unassembled - except for three IC sockets for \$ 35.00 and will ship via UPS - CONUS.

If anyone's up for a challanging project for the summer - here it is!

E-Mail replys to - bhowle@delphi.com -

From ab4el.com Thu Apr 28 15:42:51 1994
From: fkf1@cornell.edu (F. Kevin Feeney)
Subject: Re:HW-8 phones

Someone asked about hi-Z phones for the HW-8. It does make a lot of difference as the circuit is designed to push about a 1K load, not 8 ohms. But most of the old Hi-Z phones are expensive, hard to find, and typically pretty clunky. I've modifed my last two HW-8's (sold the last one to buy the Norcal 40 - good trade! :-)) to use cheap lo-z walkman type phones by mounting a 1K to 8 ohm transformer (RS273-1380, \$1.69 on a wall near you) inside the rig and replacing the big 1/4 inch jack with an 1/8 inch stereo jack wired to use the walkman phones with the 2 sides in series. Works very well and if you forget or break your phones, you can get any one of a zillion types for a couple of bucks most anywhere. When I've done this I don't find that the output is too low anymore, it's just about right.

(my other two favorite mods are to put in a curtis 8044 based keyer and an internal battery pack to use up some of that dead air space above the board, along with charging circuits)

73 de Kevin, WB2EMS

From ab4el.com Mon Apr 25 21:24:36 1994
From: rohrwerk@holonet.net
Subject: Rick Campbell Circuit Boa

On 04-25-94 jkearman@arrl.org wrote to QRP@Think.COM:

> Rick Campbell has decided to stop making and selling circuit boards
> for his projects, like the R1 receiver. He's looking for someone to
> take over this work. In the meantime, I'm sorry to say that boards are
> not currently available.
>
> ARRL just found this out last week, when we tracked down Rick because
> of a query from a reader of this list, whose mail to Rick had been
> returned.

Hooray! He's a good man, I'm sure, but probably just got swamped. So many reports of waiting for months, and I myself never got any responses to his promises of kit lists (3 SASE's and about as many E mail messages unanswered.)

Yes, he really should license them to one of the kit makers. They could provide the following configurations:

- Boards only

- Partial kits with boards, the precision resistors/capacitors, and the necessary matched inductors and capacitors (for the R2 receiver -- I still haven't done that IF diplexer network!)

- Complete kits

Am I right that, even though every QST article gives the disclaimer that "the ARRL in no way warrants this offer", that the League definitely doesn't want that many bad reports coming back on something that was in its pages?

```
* John Seboldt...Mpls, MN...As a ham, K0JD...as a human...well,... *
|                               rohrwerk@holonet.net                       |
*      "Aaaaaahhh.... BAAAAACH!" -- Radar O'Reilly                        *
```

-> Alice4Mac 2.3 E QWK Eval:05Mar94

From ab4el.com Mon Apr 25 10:52:24 1994
From: jkearman@arrl.org (Jim Kearman)
Subject: Rick Campbell Circuit Boards

Rick Campbell has decided to stop making and selling circuit boards for his projects, like the R1 receiver. He's looking for someone to take over this work. In the meantime, I'm sorry to say that boards are not currently available.

ARRL just found this out last week, when we tracked down Rick because of a query from a reader of this list, whose mail to Rick had been returned.

72/73

Jim, KR1S

From ab4el.com Thu Apr 28 12:28:33 1994
From: kiddi@marel.is (Kristinn Andersen)
Subject: Schematics on Internet or via FAX?

Hi,

Is there any place on the Internet where I can download schematics of some

of the qrp designs/kits around? TIFF or other image formats would be OK. I am interested in some of the successful and popular rigs such as the NorCal-40 and the NE40/40. Alternatively, I could receive schematics via FAX. Although general specs give an idea of the design, I feel more comfortable about ordering something I can look at and evaluate myself.

Please respond directly to: kiddi@marel.is

73 de Kristinn Andersen, TF3KX (also AB4ST)

From ab4el.com Thu May 5 13:24:35 1994
From: GReg Buhyoff <BUHYOFF@VTVM1.CC.VT.EDU>
Subject: SGC Smartuner Inquiry

I have been looking into the SGC Smartuner as a great way to tune random wires for QRP portable and base station use. It would be at the antenna feed point so it would act as a tuner not just a transmatch. Does anyone have any insights or experience or stories to tell about this unit. I will summarize and share the responses I receive, Thanks. Greg KN4FR

From ab4el.com Thu May 5 14:00:38 1994
Subject: Re: SGC Smartuner Inquiry
From: "John F. Woods" <jfw@ksr.com>

From: GReg Buhyoff <BUHYOFF@VTVM1.CC.VT.EDU>
> I have been looking into the SGC Smartuner as a great way to
> tune random wires for QRP portable and base station use. It would
> be at the antenna feed point so it would act as a tuner not just
> a transmatch.

Now there's an interesting question. Are there any automatic tuners set up to match impedances other than 50 ohms, so that one could use 75-ohm coax or even openwire with an actual antenna-mounted antenna tuner?

From ab4el.com Wed May 4 15:18:44 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Sierra Brochures

If you would like a brochure on the Sierra and are not a current member of NorCal, send me a SASE business size. The brochures are being mailed to all members of NorCal this week, but if you are not a member, send me the SASE and I will send you the info. 72, Doug, KI6DS

From ab4el.com Thu May 5 15:59:23 1994
From: jfw@ksr.com (John F. Woods)
Subject: SSB CW?

So, while I've been discussing CW sidebands in email, I mentioned the theoretical possibility of sending "single-sideband CW", i.e. strip off the unwanted sideband and carrier and send only the information-laden sideband (this is not the same as using an audio CW tone to modulate an SSB rig; that is simply using the SSB rig as a mixer to shift the carrier from AF to RF).

So now I wonder, has this ever been done? The filtering requirements would be fiendish (unless perhaps the SSB generation was done at AF), and a phasing approach would probably be awfully difficult, too. Maybe an audio-range SSB CW signal could be practically generated using DSP (to avoid having to construct unrealizable filters), and then shifted to RF with a standard SSB rig. Demodulation would probably be tricky; unlike AM CW, where you're just heterodyning, here you'd have to actually re-insert the real carrier before you'd be able to recover the modulation, and the margin of error is proportionately reduced: if tens of hertz are sufficient to screw up voice, tenths of hertz would... gee, what would the CW equivalent of "Donald Duck" sound like?

All the cost of SSB, but none of the benefits. Wait, are there any benefits to phone? ;-)

I don't have any DSP hardware as such, but I can probably find a way to play data streams if I toy around with this, to at least find out what it sounds like. Maybe I will.

73, John, WB7EEL/1

From ab4el.com Wed May 4 00:26:13 1994
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: TenTec & MFJ,Dayton

TenTec had a good booth at Dayton. They were displaying most of the kits that they are coming out with, and I was impressed with several of them. The price is right, and they look fairly interesting. The Regenerative receiver really caught my eye, as it looks like a good boy scout type project. The cost is only \$39.95, and it comes complete with case. I ordered one and was told that it would be about 2 months before it was ready to ship.

I also purchased several nice TenTec aluminum cabinets. Got them for half price as a show special. The price really drops on those cases when you buy 12 or more. I would suggest that you find 2 or 3 other local qrpers and place an order that is large enough to take advantage of the quantity discount. They have a neat case in the TP-17 that is 1.75"H x 4.25"W x 3.5"D. It is perfect for the 30-40 and 40-40 New England kits that I have.

MFJ also had their usual nice booth. A couple of interesting new products were the "box fan" transmitting antenna, and the SSB rig. They have an antenna that is inside of a box fan case, and is capable of transmitting for hf. I was in a hurry, so did not get the details.

Martin F. Jue himself sold me 1 of 2 SSB rigs that they brought to the show. I got there 10 minutes after the show opened, so I was first in line to ask about the rig. Martin is really proud of the rig. He showed me all of the features and has a nice looking radio. I asked him about the possibility of it being a kit, and he told me that the subject has been considered and they are waiting to see if there is any interest in it. Ok, guys, here is the chance we have been waiting for. All of us need to write a letter to Martin at MFJ. Address your letter to Mr. Martin F. Jue, President, MFJ, box 494, Mississippi State, MS 39762. His fax number is 601-323-6551. Simply state in the letter that you are interested in MFJ marketing a kit version of their SSB QRP rig and also a kit version of their CW rig. He indicated to me that if he got more than a couple of hundred requests, it would be a strong indication of interest. Here it is, a chance to help ourselves. Go for it.
72, Doug, KI6DS

From ab4el.com Tue May 3 19:17:15 1994
From: jrj@mbunix.mitre.org (Johns)
Subject: The Low Down #2

I just received issue #2 of the Colorado QRP Club's newsletter the Low Down. Here is the table of contents:

Activities Calendar (Pull Out)	Center
Activities and Contest Information	9 & 12
Check-ins	19
EFT Update	18
Field Day Announcement	7
Ham Bike Tour	17
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The QRP Rig Profile lists the characteristics of 19 QRP rigs. While

there are a number of ?s in some of the fields, this looks like a great way to compare kit and commercial rigs for the QRP market. Hopefully the Colorado QRP Club will share this table with other groups and those groups can expand on the list to include "local" rigs from local and regional QRP clubs.

For those of you who chase awards the EFT (Earth Friendly Technologies) certificate is available to those who "demonstrate, to the satisfaction of the Certificate Manager, their ability to complete a QRPP (less than one watt) QSO at distances greater than 100 kilometers."

Looks like a nice newsletter. I'm only sorry that I can't attend the meeting on May 7 in Aurora, CO. I lived in Aurora for 8 years from 1980 and sure wish the group had been in existence then. Maybe I wouldn't have moved from Colorado :-)

Jim Johns KA0IQT

From ab4el.com Tue May 3 11:12:54 1994
From: ASIRENE@v9001.ntu.ac.sg
Subject: Re: The Right Sideband?

Hi Brad,

You make a good point but I was wondering if the fact that most of the crystal filters in Superhet designs, for example, are un-symmetrical. That is to say that of the products, one will be decidedly stronger than the other. I know this does not really affect the argument of which sideband is clearer directly. However, when we consider that the transmit frequency is often related to the receive frequency, would it not be conceivable that the person at the TX end has his superhet tuned at 7.040Mhz + 700Hz (listening) and TX on 7.040 but the guy receiving is also transmitting on 7.040 but is listening on 7.040Mhz - 700Hz putting 1.4kHz in between them. With a pretty sharp filter they won't be hearing one another? Hmmm.... wait I got it wrong. I think I meant that the RX is on 7.040 but TX on 7.040+700 and the other station also RX on 7.040 but TX on 7.040-700. Is this situation a possible problem? Hmmm... sorry but this still does not sound right to me.

Let try this again. I am listening on 7.040 but you are TX on 7.040 + 700 Hz AND listening on 7.040 + 700 Hz. BUT I am transmitting on 7.040 - 700Hz so I can hear you but you can't hear me! I think I got it right this time. The problem is that the way the two stations are aligned are different. One listens on the TX frequency and the other listens on the TX+700 or TX-700. Please correct me cos this has been on my mind for sometime now.

73,
Daniel

From ab4el.com Tue May 3 11:54:11 1994
Subject: Re: The Right Sideband?
From: "John F. Woods" <jfw@ksr.com>

> You make a good point but I was wondering if the fact that most of the
> crystal filters in Superhet designs, for example, are un-symmetrical.

In fact, they are often decidedly asymmetrical; the NN1G tuneup info mentions that you can choose which "sideband" to tune the BFO to to get the sharpest edge from the IF filter.

From ab4el.com Tue May 3 13:53:39 1994
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: Re: The Right Sideband?

Boy, good reading! I guess I didn't play through the scenario about D.C. Rigs to realize what could... happen. Also I cringed at the thought of having to produce a continuous carrier for an infinite amount of time, because it sounded like my college prof. Yes I remember that the faster the data rate, the broader the bandwidth etc, but that's kinda off the point like you said John :-)
Anyway, I guess that the bottom line is this...

I could be transmitting on 7040, and receive with my D.C. receiver on 7040 - 700 Hz or I could be transmitting on 7040 -1.4 kHz and receive on 7040 - 700 Hz as well.
So I've got that point no problem. I never ran into that, or is that why I have such better luck with the nn1g vs the Sudden Rx and cubic inchers ? :-) :-)

Also, Yes I too found that there was a significant difference between the two on one of the NN1G rigs that I made. Apparently some definite Asymmetry in play.
73 guys/gals Brad WB8YGG

From ab4el.com Sat Apr 30 10:58:38 1994
From: william r finch <wrfin@firefly.prairienet.org>
Subject: Too bad I couldn't go :-)

Just a little ribbing! I hope everyone has a great time.
(It's about the same at my home QTH)

72-356/357 de KF9KI

Weather Conditions at 10 AM EDT on 30 APR 94 for Dayton, OH.

Temp(F)	Humidity(%)	Wind(mph)	Pressure(in)	Weather
---------	-------------	-----------	--------------	---------

=====

44 92% ENE at 11 30.12 moderate rain showers

DAYTON AND VICINITY FORECAST
NATIONAL WEATHER SERVICE DAYTON OH
1040 AM EDT SAT APR 30 1994

..FLOOD WATCH THIS AFTERNOON...

THIS AFTERNOON...COOL WITH OCCASIONAL RAIN...ALONG WITH SCATTERED
THUNDERSTORMS. RAIN HEAVY AT TIMES. HIGH 55 TO 60. NORTHEAST WINDS 10 TO
15 MPH BECOMING SOUTHEAST.

TONIGHT...SHOWERS AND THUNDERSTORMS LIKELY BEFORE MIDNIGHT...THEN
CLOUDY WITH A SLIGHT CHANCE OF SHOWERS AGAIN TOWARD SUNRISE. LOW
35 TO 40. SOUTHEAST WINDS 10 TO 15 MPH...BECOMING NORTHWEST. CHANCE OF
RAIN 70 PERCENT BEFORE MIDNIGHT AND 20 PERCENT AFTERWARDS.

SUNDAY...CLOUDY IN THE MORNING WITH A CHANCE OF SPRINKLES OR SNOW
FLURRIES EARLY. PARTIAL CLEARING IN THE AFTERNOON. COOL WITH A HIGH
NEAR 50.

TIPTON

Bill Finch	~ ~
KF9KI	~~ ~~
Champaign, Il	~ ~
wrfin@prairienet.org	/ \

From ab4el.com Sun May 1 21:32:16 1994
From: Stephen Trier <sct@po.cwru.edu>
Subject: Traditional QRP frequencies on 40m?

I'm building a little 40m VXO transmitter from _W1FB's Design Notebook_ as
a starter QRP building project. Is 7040 kHz a good choice for the crystal,
considering that I can't afford more than one or maybe two crystals?

Stephen

--
Stephen Trier

sct@po.cwru.edu
KB8PWA

From ab4el.com Wed May 4 01:20:53 1994
Subject: Transistor Substitute
From: Jeff McLeman <mcleman@nthead.zso.dec.com>

Well, I diagnosed my HW8 problem last night. It seems that Q11 is letting around 5.2V through to the collector, which leaves the xmitter engaged at all times. It is obviously hosed.

Anyway, it is an S2091. Any good substitutes for it? I can find it in my cross reference. (Mine are limited).

tnx and 72,

Jeff -- KD1IT/7

From ab4el.com Wed May 4 16:11:38 1994
From: James Lyons <jlyons@CAM.ORG>
Subject: Re: Transistor Substitute

On Tue, 3 May 1994, Jeff wrote:

> Well, I diagnosed my HW8 problem last night. It seems that Q11 is
> letting around 5.2V through to the collector, which leaves the xmitter
> engaged at all times. It is obviously hosed.

>

> Anyway, it is an S2091. Any good substitutes for it? I can find it in
> my cross reference. (Mine are limited).

>

The ECG catalog lists ECG 159 as a replacement. Since that is also the replacement for a 2N3906 I presume you could use the @N3906 to replace the s2091. It is a PNP Si A/F driver.

Hope this helps.

73/72
Jim, VE2KN

From ab4el.com Mon Apr 25 08:15:09 1994
From: C=BAILEY%IS%211EIS@ANG193FS.af.mil

Subject: re: TUNER ADVICE

Bob,

I own a MFJ-941C. I believe that they are still made. It works well for me. It may be larger than you want though. It contains an SWR bridge, 4:1 balun, and coax switch. SO-239 connectors are used. These are starting to show up at hamfests now that everyone is getting autotuners.

Mine works well down to 2 watts on 40 meters.

W1FB's QRP Handbook published by ARRL has some ideas for tuners/power meters.
72 de Cameron, KT3A.

From ab4el.com Tue Apr 26 15:05:59 1994

From: mvjfm@mvubr.att.com (James M Fitton +1 508 960 2577)

Subject: Ugly Rig Competition

Brad,

Excellent idea on the ugly rig competition. Looks like you have a lot of interest. Would you run the competition for QRP-NE ? You could set the rules, run contest and charge \$1 to enter and the entry fee would partially pay for a prize.

Thanks, Jim W1FMR

From ab4el.com Tue May 3 09:53:46 1994

From: KELL@LARK.JSC.NASA.GOV

Subject: W7EL Wattmeter

In the QRP Quarterly index update that Doug put out some time ago, there was a reference to an article in QQ of October 1993 by Mike, WA8MCQ entitled "A fix for the W7EL QRP Wattmeter".

I just finished my 624 kit based on that design and I am curious as to what the "fix" was. Could someone enlighten me?

The wattmeter seems to work nicely, altho' the box it is in is bigger than the companion NORCAL 40.

Thanks in advance for any help anyone can offer.

73

Ted Kell@lark.jsc.nasa.gov
KC5CUW

From ab4el.com Tue Apr 26 13:43:13 1994
From: Bruce Walker <bruce@Think.COM>
Subject: W8MVN mystery solved

Everyone remarked what a wonderful signal W8MVN had during the QRP-ARCI contest, but yet very few of us were able to work him. Well, I think I've solved the mystery...

Last year, Chuck (K5F0) organized distribution (by photocopy) of various schematics and other contributions. Well, last night, I went through the schematics looking for something (I was hoping for a schematic of the OHR QRP Wattmeter), and I ran across several pages of stuff from W8MVN. One of the pages included a block diagram of his station, which included an audio filter 75Hz (!!) wide. At the bottom, he writes a note which points out the 75Hz filter, and notes that he has no way of switching it out, so it's always there, and knows he misses some calls as a result.

So, next time you hear him, put extra effort into zero-beating his signal!

--bruce WT1M

From ab4el.com Tue Apr 26 19:15:16 1994
From: stark <msswmod@sage.unr.edu>
Subject: Re: W8MVN mystery solved

On Tue, 26 Apr 1994, Bruce Walker wrote:

> Everyone remarked what a wonderful signal W8MVN had during the QRP-ARCI
> contest, but yet very few of us were able to work him. Well, I think
I've > solved the mystery... > > Last year, Chuck (K5F0) organized
distribution (by photocopy) of various > schematics and other
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for something (I was hoping for a schematic of the OHR > QRP Wattmeter),
and I ran across several pages of stuff from W8MVN. One of > the pages
included a block diagram of his station, which included an audio > filter
75Hz (!!) wide. At the bottom, he writes a note which points out > the
75Hz filter, and notes that he has no way of switching it out, so it's >
always there, and knows he misses some calls as a result. > > So, next
time you hear him, put extra effort into zero-beating his signal! > >
--bruce WT1M

Yes Bruce,

That sounds about right. I worked him about a month before the test and had a very nice qso. I sure didn't pay much attention to zero-beating. Thought everyone used a wide open front end!

Gessshheees, I cuda had 46 qso's!

.....KU7Y.....
.....Monte "Ron" Stark.....
.....Sun Valley, Nevada.....

From ab4el.com Mon May 2 08:03:51 1994
From: "Bob Scott" <bob_scott@cpqm.saic.com>
Subject: W8MVN Station

W8MVN Station

Was browsing through my copy of Hambrew over the weekend and found a picture of Ernie, W8MVN's station. It is all homebrew and looks really great. He even has a carrying case for it. I got his QSL Friday and he was running 2 watts during the contest. A pretty impressive station. Maybe one of you folks that are doing QRP newsletters would like to talk to this guy and get more info on his station.

73
Bob
AC4QO

From ab4el.com Mon May 2 09:11:12 1994
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Re: W8MVN Station

Bob, AC4QD, posted that he was looking at Ernie's station in Hambrew.

At Dayton, on saturday afternoon about 5:30pm, I left the Hamvention to cruise back to the Days Inn South in Miamisburg/Centerville area just south of Dayton. The first and only person in the hospitality suite for the QRP group was no other than W8MVN himself with his station all setup.

First: I had talked to Ernie many times on the air. So he knew my call and we knew each other by name on the air. It was indeed a pleasure to finally meet him in person. If you get a chance to talk to him on the air, please do so. He has an interesting background. He works for R.L. Drake Co. You know, the people who make radio equipment and receivers.

Second: The first thing that I kidded him about was the fact that he was

the strongest signal that I and everybody else heard during the last QSO party for ARCI. Also, that he personally had generated a number of postings about being difficult to work. :-) He said that he was running his new rig.

He now has an S&S Engineering ARK-40 with gel cell and tuner in a large briefcase. Actually, I wouldn't call it a briefcase. It's one of those larger types, leather, about 24" or so wide, deep and the ARK-40 is long (measured while brief case is sitting on table and in the vertical position), and wide as the ARK-40 is tall.

The rig, gel cell, and tuner all fill up the front of the case and all mounted on a single piece of aluminum in a U-shape.

The man does fantastic construction.

So, he wasn't using the real fine filter that we had seen in his other rig, and it just may be that the filter in the ARK-40 is sharp enough to cut off those not close.

On 40M, using NN1G 40M version before I started making it into the K5FO special, I noted that about 1/2 of the stations on 40M were on the wrong sideband. Could it be guys/gals that we are looking at this effect? Someone could do a comparison of the rigs such as ICOM, Yaesu, etc. just to see if the manufacturers have a builtin bias. This project would take the cooperation of a significant number of people to check out. Just a thought. Also, when I say wrong sideband, I mean, we don't have a standard for this. There really is no write and no wrong "sideband". It's all relative to the local oscillator (LO) and the IF frequency.

dit dit

Chuck Adams K5FO CP-60
adams@sgi.com

From ab4el.com Mon May 2 19:10:12 1994

From: James Lyons <jlyons@CAM.ORG>

Subject: Re: W8MVN Station

> check out. Just a thought. Also, when I say wrong sideband, I mean, >
> we don't have a standard for this. There really is no write and no >
> wrong "sideband". It's all relative to the local oscillator (LO) and >
> the IF frequency.

Just for information, my Icom 751A seems to put CW on the "lower" sideband on all bands. That is, the CW frequency is closer to the lower

SSB frequency. Tuning a station properly with a transceiver using a DC RX is always a problem ... a separate RX is a big help.

On DC transceivers I have used I always put a sticker saying "Tune to the lower side of zero beat" or whatever as the case may be.

73, Jim, VE2KN

From ab4el.com Wed May 4 11:34:13 1994

From: acpy01.utsd.att.com!doug@devildog.attmail.com (os2user@vmdoug.utsd.att.com)

Subject: What exactly is bus wire?

I'm building yet another project and this one calls for a couple of ferrite beads on a piece of bus wire. Ok, I've built a few projects before, so I'm not a complete newbie... but I don't know what bus wire is. I admit my ignorance. (There, I said it!)

What is 'bus wire'? Is there something special about bus wire?
Is it just #22 or #28 wire? Insulated? Stranded? Solid?
Do I know bus wire, but just by a different name??? Arrgghh.
What is it?

Douglas Quagliana KA2UPW
doug@acpy01.utsd.att.com

From ab4el.com Wed May 4 12:16:03 1994

Subject: Re: What exactly is bus wire?

From: "John F. Woods" <jfw@ksr.com>

> What is 'bus wire'? Is there something special about bus wire?
> Is it just #22 or #28 wire? Insulated? Stranded? Solid?
> Do I know bus wire, but just by a different name??? Arrgghh.
> What is it?

I *think* it's just bare wire which is sturdy enough to suspend in mid-air to make a power-supply "bus" from. I have some tinned #18 wire that I bought as bus wire; it actually seems stiffer than other #18 wires I've seen. If your "ferrite beads on bus wire" is just for power-supply filtering, the wire is probably uncritical; if it's actually acting as an inductor in a tuned circuit, then it would probably pay to use a good stiff wire for stability.

From ab4el.com Wed May 4 13:06:52 1994

From: Duane P Mantick <wb9omc@ecn.purdue.edu>
Subject: Re: What exactly is bus wire?

>
> > What is 'bus wire'? Is there something special about bus wire?
> > Is it just #22 or #28 wire? Insulated? Stranded? Solid?
> > Do I know bus wire, but just by a different name??? Arrgghh.
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> If your "ferrite beads on bus wire" is just for power-supply filtering, the
> wire is probably uncritical; if it's actually acting as an inductor in a
> tuned circuit, then it would probably pay to use a good stiff wire for
> stability.
>

To answer his questions....

Typically, bus wire is a solid wire, often supplied as pre-tinned for ease of soldering. It is almost always supplied with NO insulation on it. Size wise, it can be anything from real little up to real thick.

For short runs, it is just as easy to make your own rather than buying it - just take a piece of solid copper wire of the size desired, strip the insulation off of it, and tin the snot out of it with Mr. hot iron and some solder. Make sure the copper is CLEAN first, e.g., not covered with oxidation. Makes your life a lot easier. :-)

Another thing to take note of - you will typically be using this to tie multiple common connections. Hence, you're using it in an area where you don't have to worry about things shorting. If you ARE in an area where such concerns are evident, DON'T USE IT! Rather, stick to a point-to-point insulated wire.

I have seen people blow up more good projects by the innappropriate use of a bare wire bus than most other reasons.....

Duane
wb9omc

From ab4el.com Wed May 4 13:16:20 1994
From: jkearman@arrl.org (Jim Kearman)
Subject: Re: What exactly is bus wire?

Bus wire used to be the heavy stuff they used for canaries on trolleys, didn't it?

Nowadays I think it just means bare wire, often tinned, but that's not necessary.

73

Jim, KR1S

From ab4el.com Wed May 4 15:32:21 1994
From: Raymond.Anderson@EBay.Sun.COM (Ray Anderson)
Subject: Re: What exactly is bus wire?

----- Begin Included Message -----

I'm building yet another project and this one calls for a couple of ferrite beads on a piece of bus wire. Ok, I've built a few projects before, so I'm not a complete newbie... but I don't know what bus wire is. I admit my ignorance. (There, I said it!)

What is 'bus wire'? Is there something special about bus wire? Is it just #22 or #28 wire? Insulated? Stranded? Solid? Do I know bus wire, but just by a different name??? Arrgghh. What is it?

Douglas Quagliana KA2UPW
doug@acpy01.utsd.att.com

----- End Included Message -----

It is simply solid, uninsulated, tinned copper wire. Usually used in sizes from 10 to 24. (sometimes bigger or smaller depending on the application) Nothing real exotic!

73's

Ray WB6TPU
raymonda@uranium.sun.com

From ab4el.com Mon Apr 25 15:29:05 1994
From: Brien Pepperdine <pepperb@gov.on.ca>

Subject: what is the difference

I am wondering what the essential differences between the Ten-Tec Argonauts models 505, 509 and 515 are? Differences worth worrying about? or are there essential changes to be aware of re. use? It seems that Ten-Tec keeps the same essential model in production for a long time, and that's OK, but they also do some improvements (I assume) over that production period as well, so I would like to know what they got up to over the three models.

I am looking to acquire something to use portable for backpacking, camping and canoeing etc. Opinions?

I am also considering a HW-9 with WARC band mods. if I can every manage to pick one up - I got scooped on one at the latest ham fleamarket by a vendor who had the 7 a.m. advantage. Any opinions?

Other than that - hello to everyone on the qrp list I just joined.
73